Index to Volume 1

Original Articles and Abstracts

Author and subject entries are included in one alphabet. Abstracts are designated —ab. Asterisk (*) indicates a paper read before the American Association for Cancer Research, Inc.

Abbott, W. D., 435—ab
Abels, J. C., J. M. Kenney, L. Craver, L. D. Marinelli, and C. P. Rhoads. Postirradiation changes in the levels of organic phosphorus in the blood of patients with leukemia, 771, 845—ab
Abeshouse, B. S., 675—ab
Abortifacient substance in human urines. Ross, M., and R. I. Dorfman, 158, 173—ab
Abrahamson, R. H., *et al.,* 91—ab
Abramson, H. A., *et al.,* 831—ab
Acanthosis nigricans overlying metastatic malignant growths of skin. Nicholas, L., 912—ab
Acetaminofluorene, toxicity and carcinogenic activity. Wilson, R. H., F. DeEds, and A. J. Cox, Jr., 595, 670—ab
Achlorhydria, cancer, stomach, experimental observations. Brunschwig, A., *et al.,* 515—ab
—— —— —— gastric juice, peptic activity. Rasmussen, R. A., *et al.,* 435—ab
Acromegaly, thyroid in 166 cases. Davis, A. C., 918—ab
Adair, F. E., 587—ab
Adair, F. L., 586—ab
—— *See* Watts, R. M., 638, 682—ab, 752*
Adam, G. F. *See* Johnston, R. A., 88—ab
Adams, W. E., 434—ab
Adamstone, F. B., 767—2 ab
Adenocarcinoma, primary, of jejunum. Cornell, N. W., *et al.,* 841—ab
—— scirrhous, left male breast, generalized bone metastasis. Livingston, S. K., 835—ab
—— small intestine, in mice receiving methylcholanthrene and dibenzanthracene orally. Lorenz, E., and H. L. Stewart, 743*
Adenofibroma, transplantable mammary, of white rat, effect of dibenzanthracene. Davis, J. H., *et al.,* 580—ab
Adenomas, sebaceous, symmetrical. Millan Gutierrez, J., 257—ab
Adler, F. H. *See* Weinberger, L. M., 917—ab
Adrenal, and thyroid, periodicity of activity influenced by time of feeding, in guinea pig. Blumenthal, H. T., 424—ab
—— atrophy, contralateral, with cortical adrenal neoplasms. Weinberg, T., 848—ab
—— carcinoma, metastatic and hypernephroma. Tenenbaum, J., 848—ab
—— cell-rest tumor, virilism associated with. Zuckerman, S. S., *et al.,* 93—ab
—— cortex, adenomas, with masculinization of male castrated guinea pigs. Spiegel, A., 333—ab
—— —— extract, effect on capillary permeability. Menkin, V., 425—ab
—— —— hormone, prevention of experimental fibroids. Lipschütz, A., *et al.,* 507—ab
—— —— tumor, case without endocrinological symptoms. Loeb, M. J., 847—ab
—— —— tumors, with masculinization of castrated male guinea pigs. Spiegel, A., 333—ab
—— Cushing's syndrome, testosterone treatment. Albright, F. W., *et al.,* 917—ab
—— gland and liver, effects of extracts on growth of tumors in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.,* 331—ab
—— glands of mice from strains with different susceptibilities to mammary cancer. Blaisdell, J. S., W. U. Gardner, and L. C. Strong, 283, 331—ab
—— hemangioblastoma. Marten, M. E., *et al.,* 916—ab
—— medulla, pheochromocytoma, surgical treatment. Biskind, G. R., *et al.,* 847—ab
—— —— tumor, Maruyama, K., 848—ab
—— —— —— Nettleship, A., 848—ab
—— tumor, air insufflation in diagnosis. Cahill, G. F., 436—ab
—— —— urine, female, nature of androgens. Wolfe, J. K., *et al.,* 333—ab
—— tumors, estrogenic effects in ovariectomized mice. Gardner, W. U., 632, 670—ab
—— x-zone comparison in two inbred strains of mice. Daughaday, W., 883, 906—ab
Adrenocortical syndrome, virilism. Mintz, N., *et al.,* 848—ab
Aebersold, P. C. *See* Stone, R. S., 678—ab
Age, cancer. Neumann, A., 591—ab
—— —— incidence of mammary gland carcinoma in mice injected with estrogen compared with noninjected. Suntzeff, V., M. Moskop Kirtz, H. T. Blumenthal, and L. Loeb, 446, 507—ab
—— dangerous, for cancer. Körbler, J., 591—ab
—— effect on connective tissue of uterus, cervix, and vagina of rat. Burack, E., J. M. Wolfe, W. Lansing, and A. W. Wright, 227, 251—ab
—— in function of pineal gland. Zephiroff, P., *et al.,* 336—ab
—— physiological, as basis for comparison of strains of mice subject to spontaneous mammary carcinoma. Murray, W. S., and J. G. Hoffman, 298, 333—ab
—— relation to occurrence and transplantation of adenoma-like lesions in rat hypophysis. Saxton, J. A., Jr., 277, 332—ab
Agents, transmissible, absent in induced fowl tumors. Murphy, Jas. B., and E. Sturm, 609, 669—ab
Alapy, H. The persistence of growth inhibition in young rats induced by 1,2,5,6-dibenzanthracene, 499, 508—ab
Albany (A-S) strain, rats, abnormalities of breeding behavior. Danzi, M. V., E. Burack, and A. W. Wright, 795, 827—ab
Albers, E. S., 833—ab
Albright, F., 917—ab
—— *See* Fraser, R. W., 509—ab
Aldehydes and derivatives, in chemotherapy of cancer. Boyland, E., 81—ab
Alderman, J. E. *See* Vosburgh, R. K., 914—ab
Allen, E., and W. U. Gardner. Cancer of the cervix of the uterus in hybrid mice following long-continued administration of estrogen. 359, 423—ab, 738*
Allen, E. *See* Williams, W. L., 831—ab
Allen, F. M., 584—ab
Allen, P. L., 847—ab
Allison, R. G., 910—ab
Alter, N. M., 587—ab
Althabe, A., 176—ab
Alustiza, F., 436—ab
Amebic dysentery, complicating diagnosis of carcinoma of rectum. Landsman, A. A., 590—ab
American Association for Cancer Research. 33rd annual meeting, 1940; Minutes of Business Meetings, 71
—— —— Scientific sessions, 73
—— Inc. By-laws, 757
—— Members, 760
—— 34th annual meeting, 1941; Proceedings, Business Sessions, 754
—— —— —— Scientific Sessions, 729
American College of Surgeons, cancer record forms. Pack, G. F., 592—ab
—— report, 592—ab
Amidoazotoluol carcinogenic properties. Vassiliadis, H. C., 78—ab

Amines, growth-inhibiting action, resistance of tumor cells in tissue culture. Brues, A. M., and E. B. Jackson, 557, 585—ab
Amino-acid configuration, nonspecificity in malignant tissue hydrolysates. Behrens, O. K., *et al.,* 335—ab
Aminoazobenzene, dimethyl. *See also* Butter yellow
Aminoazobenzene, dimethyl, effects of feeding white rats. Nagao, N., 581—ab
Aminoazotoluene, liver tumors in rats. Emmart, E. W., 250—ab
—— with kieselguhr in production of sarcomas in rats. Nagao, N., 581—ab
Aminoazotoluol, effect of liver feeding on liver cancer production. Mori, K., 830—ab
Amniotic fluid, lung tumors induced by injection of dibenzanthracene, in mice. Law, L. W., 330—ab
Amoeba proteus, effect of oxygen tension and sulfhydryl concentration on nuclear growth and fission. Chalkley, H. W., *et al.,* 82—ab
Ampulla of Vater, carcinoma, resection of duodenum and head of pancreas. Orr, T. G., 841—ab
—— —— River, L., *et al.,* 590—ab
—— —— 40 cases. Sharpe, W. S., *et al.,* 842—ab
—— —— primary. Vaughn, A. M., 842—ab
—— tumor, resection of duodenum. Horsley, S. J., 979—ab
Amtman, L. *See* Meyer, K. A., 916—ab
Anacidity, gastroscopic, anatomic foundation. Schindler, R., *et al.,* 92—ab
Anderson, F. M. *See* Patterson, G. H., 770—ab
Anderson, H. R. *See* Foote, F. W., Jr., 844—ab
Anderson, R. S. *See* Friedenwald, W. F., 427—ab
Anderson, W. A. D., 680—ab
Andervont, H. B. The influence of hybridization upon the susceptibility of mice to transplantable and spontaneous tumors, 739*
—— 250—ab, 252—2 ab, 422—ab, 429—ab, 907—ab, 976—ab, 977—2 ab
—— *See* Shimkin, M. B., 77—ab, 671—ab, 976—ab
Ando, T., 81—ab, 429—ab, 584—ab
Androgens, and estrogens, effect on spontaneous benign mammary tumors. Heiman, J., 671—ab, 735*
—— —— —— excretion in males with mammary carcinoma. Yolton, N., *et al.,* 339—ab
—— —— —— urinary excretion by women with carcinoma of breast. Ross, M., and R. I. Dorfman, 52, 88—ab
—— nature, in female adrenal tumor urine. Wolfe, J. K., *et al.,* 333—ab
—— transforming rat mammary adenofibroma to fibroma. Mohs, F. E., 151, 170—ab
—— urinary, diagnosis of forms of basophilism. Crooke, A. C., *et al.,* 429—ab
Androsterone, metabolite of testosterone. Dorfman, R. I., *et al.,* 429—ab
Anemia, pernicious, and carcinoma of stomach. Nessler, A. B., 514—ab
—— —— gastritis and gastric cancer. Rhoads, C. P., 516—ab
Angelo, M. *See* Barany, E., 88—ab
Angioma, skull. Abbott, W. D., 435—ab
Angiomatosis, Lindeau and Von Hippel, with symmetrical sebaceous adenomas of Pringle's type. Escalona, E., 257—ab
Anorectal region, squamous cell carcinoma. Kerr, J. G., 514—ab
Anspach, W. E. *See* Collins, N. C., 918—ab
Antagonism, tumors, malignant, in same animal. Bonser, G. M., *et al.,* 505—ab
Antibodies, types, in blood of rabbits carrying transplanted V2 carcinoma. Friedewald, W. F., *et al.,* 674—ab
Anti-estrus substance from urine of 4-year-old female. Zephiroff, P., *et al.,* 333—ab, 336—ab
Antigen analysis, serologic, of transplantable neoplasms. Oswald, W., *et al.,* 586—ab
—— heterogenetic, associated with material in normal and tumor tissues sedimentable at high speed. Furth, J., *et al.,* 431—ab
Anus, and canal, squamous cell carcinoma, 55 cases. Gabriel, W. B., 513—ab
—— carcinoma. Kaplan, I. I., *et al.,* 91—ab
Aoring, C. D., *et al.,* 917—ab
Apitz, K., 846—ab
Appel, M., *et al.,* 672—ab
—— *See* Saphir, O., 545, 586—ab
Appendix, benign and malignant cystic tumors. Woodruff, R., *et al.,* 92—ab
—— tumors. Storey, C. F., 435—ab
Apperly, F. L. The relation of solar radiation to cancer mortality in North America, 191, 258—ab
Arbuckle, M. F., *et al.,* 341—ab
Archer, V. W., *et al.,* 87—ab
—— *See* Woodward, F. D., 839—ab
Arenas, N., *et al.,* 339—ab
Argentaffin carcinomas, small intestine. Willis, R. A., 591—ab
Arginase activity of tumors and normal tissues. Greenstein, J. P., *et al.,* 673—ab
—— relative activity, in tumors and normal tissues. Greenstein, J. P., W. V. Jenrette, G. B. Mider, and J. White, 732*
Arneson, A. N., *et al.,* 88—ab
Arnold, H. *See* Zimmerman, H. M., 919, 975—ab
Aronson, S. F., 918—ab
Arrhenoblastoma, ovary. Althabe, A., *et al.,* 176—ab
—— —— Kanter, A. E., *et al.,* 914—ab
—— —— Krock, F., 340—ab
Arsenic as cause of cancer of mucous membrane. Goeckerman, W. H., *et al.,* 510—ab
Ash, J. E., 89—ab
—— *See* Stirling, W. C., 915—ab
Ashworth, C. T., *et al.,* 841—ab
Asphyxia, tumors, ligation, experimental, combinations with chemicals. Allen, F. M., 584—ab
Aspidisca, blastogenic agents and virus inclusions. Mottram, J. C., 508—ab
Astrocytomas, cerebral, and derivatives. Scherer, H. J., 433—ab
Astrocytosis arachnoideae cerebelli, von Recklinghausen's neurofibromatosis. Walker, A. E., 833—ab
Atkins, H. J. B., 175—ab
Aub, J. C., D. Karnofsky, and L. E. Towne. Sex hormone excretion rates in high and low tumor strains of mice, 737*
Aub, J. C. *See* Franseen, C. C., 393, 422—ab, 489, 505—ab
—— *See* Gusberg, S. B., 509—ab
Auchincloss, R. *See* Haagensen, C. D., 252—ab
Auditory canal, external, tumors. Mitchell, H. E., 918—ab
Auditory tumors and effects of distant tumors on auditory function. Richter, H., 834—ab
Auerbach, C., 166—ab
Auster, L. S., *et al.,* 88—ab
Austin, W. L. *See* Parran, T., 94—ab
Autoxidation, oils, effect of carcinogenic hydrocarbons and related compounds. Deutsch, H. F., D. L. Miner, and H. P. Rusch, 818, 825—ab
Auxins, hyper, in crown gall. Link, G. K. K., and V. Eggers, 741*
Avitaminosis B, low body temperature, influence on growth sarcoma 180. Bischoff, F., and M. L. Long, 217, 254—ab
Axelrod, B. *See* Balls, A. K., 170—ab
Azo compounds, cancer producing properties in mice. Law, L. W., 397, 422—ab
—— dyes, acid, localization in tumors. Hess, M., 172—ab
Azonaphthalenes and related compounds, effects on livers of mice. Cook, J. W., *et al.,* 167—ab

Bachman, A. L. *See* Walter, R. I., 682—ab
Bachmann, W. E., *et al.,* 505—3 ab, 668—2 ab
—— *See* Bradbury, J. T., 685, 766—ab
Backus, G. R., *et al.,* 681—ab
Badger, G. M., *et al.,* 166—ab, 505—ab
Baehr, F. H. *See* Fienberg, R., 843—ab
Baeza-Herrera, H. *See* Lipschütz, A., 425—ab
Baeza-Rosales, H. *See* Lipschütz, A., 425—ab
Bagg, H. J. Mammary gland tumors in the male rat associated with castration and ovarian transplantation, 736*
Baggenstoss, A. H., *et al.,* 93—ab

Bailey, O. T., 87—ab
Baily, P., 768—ab
Bakelite discs, sarcoma at site of implantation in rats. Turner, F. C., 975—ab
Baker, C. P. *See* Keegan, J. J., 92—ab
Balfour, J. *See* Dean, A. L., 511—ab
Ball, H. A. Glycogen and Walker tumor 256, 974*
Ballinger, J., 848—ab
Balls, A. K., *et al.,* 170—ab
Baltimore Marine Hospital, Tumor Clinic. Bryan, E. R., 94—ab
Banti's syndrome, with primary carcinoma of liver. Wentz, V. B., *et al.,* 842—ab
Bantu liver, binucleated and multinucleated cells. Gillman, J., 177—ab
—— —— carcinoma, clinical features. Berman, C., 177—ab
—— —— —— primary, pathology. Berman, C., 915—ab
—— —— extracts in production of skin tumors in mice. Des Ligneris, M. J. A., 75—ab
Barany, E., *et al.,* 88—ab
Barany, S. *See* Barany, E., 88—ab
Bargen, J. A. *See* Schweiger, L. R., 92—ab, 591—ab
Barnes, F. L., *et al.,* 512—ab
Barnes, J. P. *See* Barnes, F. L., 512—ab
Barnes, R. W., 89—ab
Barnes, W. A., and R. K. Cole. The effect of nursing on the incidence of spontaneous leukemia and tumors in mice, 99, 171—ab
—— *See* Furth, J., 17, 84—ab
Baron, H. A., 681—ab
Barrett, M. K. The antigenic nature of purified chicken tumor agent, 543, 583—ab
—— 427—ab
Barrett, N. R., 91—ab
Barringer, B. S., 683—ab
—— *See* Stevens, A. R., 89—ab
Bartholin's gland, carcinoma. Masciottra, R. L., *et al.,* 257—ab
Bartholomew, O. *See* Fekete, E., 336—ab
Basal cell carcinoma of face, recurrent, treatment. Young, F., 913—ab
Baslow, E. A. *See* Farberov, B. E., 840—ab
Basophilism, differential diagnosis, by estimation of urinary androgens. Crooke, A. C., *et al.,* 429—ab
Bassett, A. M. *See* Craig, F. N., 751*, 869, 908—ab
Battle, J. D., Jr., *et al.,* 842—ab
Batts, M., Jr., 842—ab
Baumann, C. A., 508—ab
—— *See* Berger, J., 584—ab
—— *See* Jacobi, H. P., 82—ab
—— *See* Lavik, P. S., 181, 254—ab
—— *See* Miller, J. A., 699, 768—ab
—— *See* Rusch, H. P., 334—ab
Baumeister, C. F. *See* Baumeister, C. F., Sr., 910—ab
Baumeister, C. F., Sr., *et al.,* 910—ab.
Baxter, H., 341—ab
Bayerle, H., 584—ab
Beadner, S. A. *See* Biskind, G. R., 847—ab
Beard, J. W. *See* Bryan, W. R., 826—ab
Beatty, G. A. *See* Flinn, L. B., 848—ab
Beck, F. F., and J. C. Krantz, Jr. Tumor glycolysis. IV. The effect of feeding thyroid supplemented by thiamin chloride on the growth and glycolysis of Walker sarcoma 319 in rats, 188, 251—ab
Beck, S., *et al.,* 166—ab, 908—ab
Becker, A., 680—ab
Bedard, R. E. *See* Counsellor, V. S., 89—ab
Behrens, O. K., *et al.,* 335—ab
—— *See* Burk, D., 733*
Belanger, G. *See* Leucutia, T., 915—ad
Bell, A. L. L., 86—ab
Bell, J., 909—ab
Bellevue Hospital, brain tumors irradiated. Kaplan, I. I., 676—ab
Bellolio, P. *See* Lipschütz, A., 425—ab
Bender, M. B., *et al.,* 769—ab
Benecke, E., 846—ab
Benedict, E. B., 512—ab, 839—ab
Bengolea, A. J., *et al.,* 175—ab
Benignancy, artificial, of neoplasm, experimentally induced by sex hormones. Salter, W. T., I. R. Nathanson, and H. Wilson, 60, 79—ab
—— —— —— oxidative behavior of tumors. Craig, F. N., A. M. Bassett, and W. T. Salter, 869, 751*, 908—ab
Benjamin, E. L., *et al.,* 91—ab
Benzanthracene absorption spectra of derivatives. Jones, R. N., 580—ab
—— acceleration of leukemias and mammary carcinomas in mice. Engelbreth-Holm, J., and H. Lefèvre, 102, 168—ab
—— benzpyrene, isocyanates. Creech, H. J., 328—ab
—— derivatives, substituted, carcinogenic action. Shear, M. J., *et al.,* 423—ab
—— induction of lymphomatosis in mice. Law, L. W., *et al.,* 330—ab
—— percutaneous application, induction of leukemia in mice. Law, L. W., 564, 580—ab
Benzanthracenes, synthesis. Bachmann, W. E., *et al.,* 505—ab
Benzanthryl isocyanates, conjugates with horse serum albumin. Creech, H. J., *et al.,* 329—ab
Benzene and methyl salicylate, solvents for methylcholanthrene. Burdette, W. J., and L. C. Strong, 939, 975—ab
Benzpyrene, benzanthracene, isocyanates. Creech, H. J., 328—ab
—— biophysical factors influencing absorption, distribution, and carcinogenesis. Peacock, P. R., 423—ab
—— carcinogenic action, latent. Beck, S., *et al.,* 166—ab
—— dimethylene. Bachmann, W. F., *et al.,* 668—ab
—— elimination from animal body after subcutaneous injection. Chalmers, J. G., *et al.,* 167—ab
—— modifications of synthesis. Bachmann, W. E., *et al.,* 668—ab
—— stimulation and inhibition connective tissue in mice. Riley, J. F., *et al.,* 506—ab
—— visceral lesions following single subcutaneous injection in mice. Leuchtenberger, R., *et. al.,* 423—ab
Benzthiophanthrene, carcinogen. Dunlap, C. E., and S. Warren, 730*, 953, 975—ab
Bercovitz, N. Cancer in Hainan, China. A supplementary study of 451 cases with special reference to age, anatomical distribution, and etiology, 154, 178—ab
Berenblum, I. The cocarcinogenic action of croton resin, 44, 75—ab
—— The mechanism of carcinogenesis: a study of the significance of cocarcinogenic action and related phenomena, 807, 825—ab
Berger, J., *et al.,* 585—ab
Bergmann, H. *See* Levine, M., 76—ab
Bergmann, W., 167—ab
Berman, C., 176—ab, 177—ab, 915—ab
Bernstein, A., 841—ab
Bernstein, J. C. *See* Keen, M. R., 340—ab
Bernstein, S., *et al.,* 505—ab
Berris, J. M. *See* Newman, M. K., 910—ab
Best, R. R., 841—ab
Betel nut cancer, chemical aspects. Woelfel, W. D., J. W. Spies, and J. K. Cline, 748*
Bichel, J., 846—ab
Bieren, R. E., 512—ab
Bile acids and pulmonary tumor incidence in mice. Law, L. W., 669—ab
Binkley, J. C. *See* Sunderland, D. A., 588—ab
Biochemistry, recent contributions to cancer problem. Butenandt, A., 174—ab
Biopsy, aspiration, value in tumors of mammary gland. Bengolea, A. J., *et al.,* 175—ab
—— needle puncture, importance in diagnosis. Tenopyr, J., *et al.,* 256—ab
—— —— —— in carcinoma of lung. Tripoli, C. J., *et al.,* 91—ab
—— simple, effect on spontaneous mammary carcinomas in mice. Lewisohn, R., C. Leuchtenberger, R. Leuchtenberger, and D. Laszlo, 324, 335—ab
Biotin content, tumor, other tissues. West, P. M., *et al.,* 768—ab

Bischoff, F., 424—2 ab
—— **and M. L. Long.** The influence of terminal B avitaminosis with attending low body temperature upon the growth characteristics of sarcoma 180, 217, 254—ab
Bisgard, J. D., 839—ab
Biskind, G. R., 847—ab
—— *See* Mark, J., 582—ab
Bittner, J. J. Changes in the incidence of mammary carcinoma in mice of the A stock, 113, 171—ab
—— Foster nursing and genetic susceptibility for tumors of the breast in mice, 793, 827—ab
—— Further studies on the effect of the milk-influence upon the production of spontaneous and induced tumors of the breast, 738*
—— The influence of estrogens on the incidence of tumors in foster nursed mice, 290, 331—ab
—— The variability of incidence of mammary carcinoma in inbred strains of mice, 115, 171—ab
—— 253—2 ab, 826—ab
Black, W. C. *See* Spencer, F. R., 845—ab
Bladder, benign cystadenoma, urachal origin. Hamm, F. C., 89—ab
—— carcinoma imitating sarcoma. McDonald, J. R., *et al.,* 837—ab
—— —— pathology and treatment. Watson, E. M., *et al.,* 684—ab
—— —— surgical treatment, total cystectomy. Priestley, J. R., 837—ab
—— epithelial tumors. Ash, J. E., 89—ab
—— infiltrating tumors, treatment. Pearse, R., *et al.,* 837—ab
—— neurofibroma. Thompson, G. J., *et al.,* 90—ab
—— neurofibromatosis and von Recklinghausen's disease. Nagahara, Y., 87—ab
—— papillary carcinoma and hemangioma. Hyams, J. A., *et al.,* 914—ab
—— treatment of epithelial tumors with radiation. Dean, A. L., *et al.,* 511—ab
—— tumors. Bugbee, H. G., 684—ab
—— —— treatment by contact x-ray. Goin, L. S., *et al.,* 86—ab
—— —— —— refrigeration. McCravey, A., 588—ab
—— —— supervoltage treatment. Colby, F. H., 836—ab
Blaisdell, J. S., W. U. Gardner, and L. C. Strong. Adrenal glands of mice from strains with different susceptibilities to mammary cancer, 283, 331—ab
Blakemore, F., *et al.,* 336—ab
Blanchard, A. J., 911—ab
Blastogenic agents, effect on paramecia. Mottram, J. C., 313, 330—ab
Blastomas, malignant epithelial, in infancy, childhood, and youth, from birth till 30 years of age. Lacroix, L., 591—ab
Blastomogenic substances in human body. Kleinenberg, H. E., S. A. Neufach, and L. M. Schabad, 853, 905—ab
Bloch, K. *See* Lewisohn, R., 752*, 799, 829—ab
Blood and bone marrow, effects of transplanted and spontaneous tumors on red and white cells. Blumenthal, H. T., 196, 255—ab
—— and lymph vessel tumors. Watson, W. L., *et al.,* 93—ab
—— cells, malignant, differences in induced and spontaneous leukemias of mice. Furth, J., and W. A. Barnes, 17, 84—ab
—— in cancer, periodic fluctuations, radiation therapy. Gruner, O. C., 911—ab
—— in rabbits bearing carcinomas induced by tobacco tar. Roffo, A. H., *et al.,* 669—ab
—— structures, in cancer patients. Wyeth, G. A., 735*
—— whole, occurrence of material influencing incidence of mammary carcinoma in mice. Woolley, G. W., L. W. Law, and C. C. Little, 955, 977—ab
Bloomberg, E. *See* Albright, F., 917—ab
Bluefarb, S. M. *See* Combes, F. C., 916—ab
Blum, H. F., 428—ab
—— *See* Grady, H. G., 736*
Blum, S. D. *See* Ehrlich, D. E., 837—ab
Blumberg, H., *et al.,* 422—ab
Blumenthal, H. T. The effects of spontaneous and transplanted tumors on the red and white cells in circulating blood and bone marrow, 196, 255—ab
—— 424—3 ab
—— *See* Suntzeff, V., 446, 507—ab
Bocandio, B. *See* Darú, E., 437—ab
Bogart, F. B., 256—ab
Bohrod, M. G., 176—ab
Boldrey, E., *et al.,* 842—ab
Bolker, H. *See* Camiel, M. R., 834—ab
—— *See* Howes, W. E., 86—ab
—— *See* Shapiro, A. L., 980—ab
Bone, giant cell tumor, benign. Edeiken, L., 92—ab
—— —— —— —— —— late results with radiation therapy. Leucutia, T., *et al.,* 915—ab
—— —— —— —— —— results in 33 cases. Leucutia, T., 436—ab
—— extraskeletal ossifying tumors. Wilson, H., 436—ab
—— fibrosarcomas, experimental production. Franseen, C. C., J. C. Aub, and C. L. Simpson, 393, 422—ab
—— frontal, giant cell tumor. Keegan, J. J., *et al.,* 92—ab
—— giant cell tumor. Jaffe, H. L., *et al.,* 92—ab
—— hemangiomas, multiple, congenital. Pierson, J. W., *et al.,* 845—ab
—— marrow and blood, effects of transplanted and spontaneous tumors on red and white cells. Blumenthal, H. T., 196, 255—ab
—— —— malignant melanoma. Battle, J. D., *et al.,* 842—ab
—— metastases simulating primary tumors. Valls, J. E., *et al.,* 177—ab
—— myeloma, solitary. Paul, L. W., *et al.,* 845—ab
—— neurilemmoma. DeSanto, D. A., *et al.,* 92—ab
—— primary malignant tumors. Alustiza, F., 436—ab
—— —— —— —— Myerding, H. W., *et al.,* 844—ab
—— solitary plasma cell myeloma, initial stage of multiple myeloma. King, B. B., 92—ab
—— temporal, primary malignant tumors. Stokes, H. B., 845—ab
—— tumors, conservative surgery. Coley, B. C., 843—ab
—— —— giant cell. Muscolo, D. R., 177—ab
—— —— mice, gross pathology. Pybus, F. C., *et al.,* 171—ab
—— —— —— spontaneous, histology. Pybus, F. C., *et al.,* 171—ab
—— —— phosphatase of serum and tissues, radiation therapy. Woodward, H. Q., *et al.,* 679—ab
—— —— primary, malignant, roentgenologic considerations in diagnosis and treatment. Howes, W. E., *et al.,* 915—ab
Bonney, C. W., 178—ab
Bonser, G. M., *et al.,* 78—ab, 505—ab
Bortnick, A. R. *See* Hobbs, J. E., 174—ab
Bosse, M. D., 89—ab, 90—ab
Bottone, J. J. *See* Senger, F. L., 837—ab
Bouslog, J. S. *See* Wasson, W. W., 679—ab
Bowers, W. F., 843—ab, 918—ab
Bowman, R. O., and H. R. Mottshaw. Failure to find carcinogens in urine from patients with cancer, 308, 335—ab
Boyland, E., 81—ab, 505—ab, 509—ab
Brachetto-Brian, D., *et al.,* 341—ab
Bradbury, J. T., 251—ab
—— **W. E. Bachmann, and M. G. Lewisohn.** The production of cancer by some new chemical compounds. Factors affecting the latent period of tumor production, 685, 766—ab
Bradford, F. K., 769—ab
Bradshaw, H. H. *See* Kornblum, K., 343—ab
Braga, A., 256—ab
Brahdy, L., 839—ab
Brain tumor, cerebral swelling and edema. Scheinker, I., 833—ab
—— —— favorable types and results of operative removal. Horrax, G., 769—ab
—— —— metamorphopsia and psychovisual disturbance. Bender, M. B., 769—ab
—— —— normal brain potentials. McDonald, C. A., *et al.,* 769—ab

—— —— ventriculography. Peet, M. N., 432—ab
—— tumors. Coachman, E. H., 769—ab
—— —— frontal lobectomy. Stookey, B., *et al.*, 433—ab
—— —— in aged persons. Moersch, F. P., *et al.*, 770—ab
—— —— irradiation at Bellevue Hospital. Kaplan, I. I., 676—ab
—— —— methylcholanthrene-induced. Zimmerman, H. M., and H. Arnold, 919, 975—ab
—— —— verified, 13-year follow-up of cases. Davidoff, L. M., 769—ab
—— unusual tumors, pathological and diagnostic pitfalls. Meredith, J. M., 913—ab
Branchial cysts and sinuses. Lahey, F. H., *et al.*, 838—ab
Braund, R. R., *et al.*, 839—ab, 846—ab
Breast, adenocarcinomas of mice, effect of yeast extract. Lewisohn, R., C. Leuchtenberger, R. Leuchtenberger, and K. Bloch, 752*
—— —— spontaneous, in mice, treatment with spleen or yeast extract. Lewisohn, R., *et al.*, 336—ab
—— adenofibroma, rat, transformation to fibroma by androgens. Mohs, F. E., 151, 170—ab
—— advanced and recurrent carcinoma, treatment. Peck, W. S., *et al.*, 88—ab
—— benign tumors, spontaneous, effect of estrogens and androgens. Heiman, J., 735*
—— cancer. Eggers, C., *et al.*, 338—ab
—— —— arterial hypertension and surgical risk. Senturia, H. R., 836—ab
—— —— decline of incidence in mice of inbred strain. Burrows, H., 121, 171—ab
—— —— diagnosis and management. Christie, A. A., 834—ab
—— —— human, extraction of carcinogen. Menke, J. F., 330—ab
—— —— mice, chemical studies of susceptibility. Strong, L. C., 907—ab
—— —— —— development, preservation by freezing and drying in vacuo of milk-influence. Bittner, J. J., 826—ab
—— —— —— influence of milk. Bittner, J. J., 253—ab
—— —— —— influenced by foster nursing. Bittner, J. J., 253—ab
—— —— —— prevention by anterior pituitary hormone. Cramer, W., 906—ab
—— —— pre-operative and post-operative irradiation. Schenk, S. G., 836—ab
—— —— —— radiation. Powell, E. V., 677—ab
—— —— produced in C57 black male mice. Twombly, G. H., 426—ab
—— —— treatment. Thomason, T. H., 836—ab
—— —— x-ray therapy used preoperatively or in non-operated cases. Lenz, M., 338—ab
—— carcinoma. Matthews, A. A., 835—ab
—— —— Hidde, F. G., *et al.*, 88—ab
—— —— Shore, B. R., 88—ab
—— —— axillary tail. Dickinson, A. M., 87—ab
—— —— effect of foster nursing in mice. Murray, W. S., 738*
—— —— evolution. Muir, R., 510—ab
—— —— fibro-epithelial tumors, and chronic cystic mastitis. Whitmore, E. R., 836—ab
—— —— mice, material influencing incidence in whole blood. Woolley, G. W., L. W. Law, and C. C. Little, 955, 977—ab
—— —— mouse, effect of foster nursing. Murray, W. S., 738*, 790, 827—ab
—— —— —— extrachromosomal factor. Murray, W. S., 123, 171—ab
—— —— in women, urinary excretion of estrogens and androgens. Ross, M., and R. I. Dorfman, 52, 88—ab
—— —— incidence in mice of A stock. Bittner, J. J., 113, 171—ab
—— —— lobular. Foote, F. W., Jr., *et al.*, 835—ab
—— —— pre-operative irradiation. Halley, E. P., *et al.*, 835—ab
—— —— —— x-radiation. Mooney, B. R., 677—ab
—— —— regression following artificial menopause. Archer, V. W., *et al.*, 87—ab
—— —— relation of chronic mastitis. Warren, S., 88—ab
—— —— spontaneous, in C3H mice, effect of pantothenic acid. Morris, H. P., and S. W. Lippincott, 753*
—— —— —— in mice, relation to physiological age. Murray, W. S., and J. G. Hoffman, 298, 333—ab
—— —— treatment by interstitial radiation. Teahan, R. W., 679—ab
—— —— variable incidence in inbred mice. Bittner, J. J., 115, 171—ab
—— carcinomas and leukemia, acceleration by benzanthracene in mice. Engelbreth-Holm, J., and H. Lefèvre, 102, 168—ab
—— —— in mice, acceleration by methylcholanthrene. Engelbreth-Holm, J., 109, 168—ab
—— —— spontaneous, in mice, fate after simple biopsy. Lewisohn, R., C. Leuchtenberger, R. Leuchtenberger, and D. Laszlo, 324, 335—ab
—— cystic disease. Davis, H. H., 338—ab
—— cystosarcoma phyllodes, malignant. White, J. W., 913—ab
—— female, non-inflammatory nodules. Hynes, K. E., 88—ab
—— fibroadenoma, transplantable, rat, sarcomatous changes. Selbie, F. R., 909—ab
—— fibroadenomatosis. Soxenson, F., 339—ab
—— mammary gland of mice, effect of estrogen. Loeb, L., and V. Suntzeff, 439, 507—ab
—— mucinous carcinoma. Saphir, O., 836—ab
—— nipple discharge. Hinchey, P. R., 338—ab
—— sarcoma, spontaneous, C3H mice, effect of pantothenic acid. Morris, H. P., 978—ab
—— spontaneous tumors in mice, effect of heptyl aldehyde-sodium bisulfite. Strong, L. C., 473, 510—ab
—— tumor strains of mice, high and low, differences between when ovariectomized at birth. Woolley, G., *et al.*, 252—ab
—— tumors. Chumley, C. L., 835—ab
—— —— Davison, T. C., *et al.*, 835—ab
—— —— and pituitary, in hybrid mice, effect of estrogen on incidence. Gardner, W. U., 345, 424—ab, 738*
—— —— in men. Weiss, K., 836—ab
—— —— induced by methylcholanthrene, genetic analysis. Strong, L. C., and W. L. Williams, 886, 907—ab
—— —— in mice of C3H strain, effect of testosterone propionate. Jones, E. E., 787, 825—ab
—— —— milk influence. Bittner, J. J., 738*
—— —— production by ingestion of C3H milk in strain C3H mice of different ages. Andervont, H. B., *et al.*, 977—ab
—— —— rat, male, associated with castration and ovarian transplantation. Bagg, H. J., 736*
Breed, J. E. *See* Simpson, F. E., 678—ab
Breeding behavior, abnormalities, in Albany (A-S) strain rats. Danzi, M. V., E. Burack, and A. W. Wright, 795, 827—ab
Brenner's tumor, ovary. Grayzel, D. M., *et al.*, 914—ab
—— —— Etcheverry, M. A., *et al.*, 176—ab
Breslin, L. J., 839—ab
Brewer, A. K. *See* Lasnitzki, A., 776, 829—ab
Brewer, J. I., *See* Greene, R. R., 835—ab
Brindley, G. V., 340—ab
Brindley, P. *See* Selle, W. A., 618, 669—ab, 737*
Broders, A. C., *et al.*, 91—ab
—— *See* Dublin, W. B., 91—ab
—— *See* McDonald, J. R., 340—ab
Bronchial epithelium, metaplasia, relation to lung cancer. Polak, M., 344—ab
Bronchial tumors, polypoid, differentiation of benign from malignant. Brunn, H., *et al.*, 90—ab
Bronchogenic carcinoma, bronchographic examination. Fariñas, P. L., 90—ab
—— —— clinical study. Singer, J. J., 344—ab
—— —— 30 cases. Maher, P. P., *et al.*, 343—ab
—— —— treated by total pneumonectomy. Bisgard, J. D., 839—ab
Bronson, L. H. *See* Parker, R. F., 831—ab
Brown, E. *See* Fuller, R. H., 130, 171—ab
Brown, H. A. *See* Erdmann, J. F., 340—ab
Brown, J. B., *et al.*, 86—ab
Brown-Pearce carcinoma, complement-fixing antibody. Cheever, F. S., 431—ab

—— —— effect of colchicine on mitotic activity. DuBilier, B., and S. L. Warren, 966, 979—ab
—— —— experiments with material. Casey, A. E., 134, 172—ab
—— —— growth, in anterior chamber of eyes of tumor-immune rabbits. Saphir, O., M. Appel, and A. A. Strauss, 545, 586—ab
—— —— immunity induced against. Cheever, F. S., and C. A. Janeway, 23, 84—ab
—— —— in rabbits, complement-fixation tests. Jacobs, J. L., *et al.*, 674—ab
—— —— in roller tube tissue cultures. Favorite, G. O., and F. S. Cheever, 136, 174—ab
—— —— x-ray effects. Appel, M., *et al.*, 672—ab
Brown, S. J., *et al.*, 848—ab
Bruce, W. F., 328—ab
Brues, A. M., and W. E. Cohn. Phosphatase metabolism of normal and tumor tissues in culture, 434*
—— **and E. B. Jackson.** The resistance of tumor cells in tissue culture to the growth-inhibiting action of amines, 557, 585—ab
—— **B. B. Marble, and B. Riegel.** Failure to induce sarcoma in rats with wheat germ oil preparations, 815, 825—ab
—— *See* Jackson, E. B., 494, 510—ab
Brunkow, C. W., 587—ab
Brunn, H., *et al.*, 90—ab
Brunschwig, A., *et al.*, 85—ab, 93—2 ab, 434—ab, 515—ab
—— **and R. A. Rasmussen.** The relation of diet to benign neoplasia (ulcero-papillomas) of the rat's stomach, 371, 429—ab, 749*
—— *See* Rasmussen, R. A., 435—ab
Bryan, E. R., 94—ab
Bryan, W. R., 255—ab, 826—ab, 905—ab
Bugbee, H. G., 684—ab, 836—ab
Buie, L. A. *See* Broders, A. C., 91—ab
Buirge, R. E., 979—ab
Bunting, H., *et al.*, 173—ab, 586—ab
Burack, E., J. M. Wolfe, W. Lansing, and A. W. Wright. The effect of age upon the connective tissue of the uterus, cervix, and vagina of the rat, 227, 251—ab
—— *See* Danzi, M. V., 795, 827—ab
—— *See* Wolfe, J. M., 426—ab, 582—ab
Burch, J. C., 581—ab
Burchenal, J. H., 84—ab
Burdette, W. J., and L. C. Strong. Comparison of methyl salicylate and benzene as solvents for methylcholanthrene, 939, 975—ab
Burgess, E. *See* De Santo, D. A., 92—ab
Burk, D., O. K. Behrens, and K. Sugiura. Metabolism of butter yellow rat liver cancers, 733*
—— **H. Sprince, E. A. Kabat, and J. Furth.** Metabolism of chicken tumors and leukoses, 732*
—— *See* Behrens, O. K., 335—ab
Burke, E. M., and A. A. Thibaudeau. A critical histologic review of cases seen at the New York State Institute for the Study of Malignant Diseases, 753*
Burn, scar, epithelioma. Halford, J. F., *et al.*, 912—ab
Burns, cancer of skin of leg following. Fukukei, I., *et. al.*, 86—ab
Burr, H. B. *See* Hayes, H. T., 841—ab
Burr, H. S., 828—ab
Burrows, H. Decline in the incidence of mammary cancer in mice of an inbred strain, 121, 171—ab
—— 175—ab
Burtness, H. I., *et al.*, 848—ab
Buschke, F. *See* Cantril, S. T., 675—ab
Bussey, H. J. R. *See* Dukes, C. W., 915—ab
Butenandt, A., 169—ab, 174—ab
Butler, A. M. *See* Talbot, N. B., 336—ab
Butter yellow, carcinogenesis, metabolism of rat liver. Orr, J. W., *et al.*, 830—ab
—— —— diet and hepatic tumor formation. Miller, J. A., D. L. Miner, H. P. Rusch, and C. A. Baumann, 699, 768—ab
—— —— experimental liver cancer and its inhibition by various food substances. Sugiura, K., and C. J. Kensler, 745*
—— —— growth retardation, effect of diet. White, J., 431—ab
—— —— hepatic tumors in rats, morphology. Edwards, J. E., and J. White, 746*
—— —— liver cancer in rats, effect of diet. Sugiura, K., and C. P. Rhoads, 3, 83—ab
—— —— necrosis, cirrhosis, and cancer of liver in rats and diet containing dimethylaminoazobenzene. Gyorgy, P., *et al.*, 668—ab
—— —— production of liver cancer influenced by riboflavin and casein. Kensler, C. J., *et al.*, 585—ab, 670—ab
—— —— rat liver cancers, metabolism. Burk, D., O. K. Behrens, and K. Sugiura, 733*
Butylstilbene, carcinogen. Dodds, E. C., *et al.*, 905—ab
Buyo cheek cancer, chemical aspects. Woelfel, W. D., J. W. Spies, and J. K. Cline, 748*
Byars, L. T. *See* Brown, J. B., 86—ab

Cabitt, H. L., 839—ab
Cahill, G. F., 436—ab
Callow, R. K. *See* Crooke, A. C., 429—ab
Cameron, G. *See* Grand, C. G., 660, 675—ab
Camiel, M. R., *et al.*, 834—ab
Campbell, J. A., 170—ab, 328—ab
Canavan, M. M., 87—ab
Cancer and tuberculosis, topography of relative distribution. Cruickshank, D. B., 591—ab
—— breast and genital organs, relations to pregnancy, delivery, marital and social status. Peller, S., 88—ab
—— climatic factors acting during childhood and adolescence. Peller, S., *et al.*, 510—ab
—— control in Virginia. Lehman, E. P., ——ab
—— —— periodic pelvic examinations. MacFarlane, C., *et al.*, 258—ab
—— —— program, federal. Voegtlin, C., *et al.*, 94—ab
—— disease of old age? Neumann, A., 591—ab
—— etiology. Forster, N. K., 909—ab
—— mechanics, detoxification. Rhoads, C. P., 742*
—— —— factors which promote and hinder growth. Claude, A., 741*
—— —— genetic factors, in mice. Little, C. C., 742*
—— physical factors influencing growth. Lucké, B., 80—ab
—— prevention. Pólya, E., 179—ab
—— research, approaches to. Voegtlin, C., 85—ab
—— —— grants, National Advisory Cancer Council, 592—ab
—— stomach, program for study. Voegtlin, C., 516—ab
—— various organs, relations to pregnancy, delivery, marital and social status. Peller, S., 88—ab
Cancerogenic tissue extract, human sources. Steiner, P. E., 251—ab
Cantril, S. T., *et al.*, 675—ab
—— *See* Newell, K. R., 338—ab
Cappel, L. *See* Von Haam, E., 79—2 ab
Carbylamine, ethyl, and colchicine, actions in tissue cultures. Tennant, R., *et al.*, 83—ab
Carcinogen, and estrogens, stimulating secretion of mammogenic duct growth factor of anterior pituitary. Lewis, A. A., and C. W. Turner, 55
—— blastomogenic substances in human body. Kleinenberg, H. E., S. A. Neufach, and L. M. Schabad, 853, 905—ab
—— extracted from human breast cancer. Menke, J. F., 330—ab
—— human liver extract. Steiner, P. E., 750*
—— mutations in Drosophila melanogaster. Auerbach, C., 166—ab
—— wheat germ oil. Harris, P. N., 751*
Carcinogenesis, chemical configuration. Dunlap, C. E., and S. Warren, 730*, 953, 975—ab
—— precancer. Des Ligneris, M. J. A., 168—ab
—— cocarcinogenic action and related phenomena. Berenblum, I., 807, 825—ab
—— experimental, viscosity, nuclear, ultracentrifugation. Cowdry, E. V., *et al.*, 668—ab
—— in mouse's skin, methylcholanthrene, infrequent application. Cramer, W., and R. E. Stowell, 849, 905—ab

—— mechanism, biophysical factors influencing absorption and distribution of benzpyrene. Peacock, P. R., 423—ab
—— methylcholanthrene epidermal, cytological changes. Cowdrey, E. V., *et al.*, 905—ab
—— —— hyperplasia compared with benign. Paletta, F. X., E. V. Cowdry, and C. E. Lischer, 942, 975—ab
—— ultraviolet rays, wave length and energy. Rusch, H. P., *et al.*, 334—ab
Carcinogenic agents, effects on mice subject to spontaneous leukoses. Morton, J. J., and G. B. Mider, 95, 168—ab
—— compound without condensed carbon ring structure. Dodds, E. C., *et al.*, 905—ab
—— compounds, correlations. Cook, J. W., 505—ab
—— —— inhibition of phospholipid oxidation. Rusch, H. P., and B. E. Kline, 465, 509—ab, 749*
—— —— relation to cholesterol. Bergmann, W., 167—ab
—— —— report of literature, 1938 and 1939. Cook, J. W., *et al.*, 75—ab
—— distillates, fuel oil. Roffo, A. H., 169—ab
—— factors, found in tissues. Hieger, I., 329—ab
—— —— in human tissue. Hieger, I., 76—ab
—— fraction, extraction from human urine. Steele, R., F. C. Koch, and P. E. Steiner, 614, 670—ab, 750*
—— hydrocarbons, and hormones, preparations with aid of dioctyl ester of sodium sulfosuccinate. Lorenz, E., *et al.*, 423—ab
—— —— effecting elimination of Congo red from circulation. Hoch-Ligeti, C., 76—ab
—— —— related compounds, effect on autoxidation of oils, Deutsch, H. F., D. L. Miner, and H. P. Rusch, 818, 825—ab
—— substances, mechanism of action. Larionow, L. Th., 860, 906—ab
—— tar from tea. Roffo, A. H., 581—ab
Carcinogens and estrogens, stimulating secretion of mammogenic duct growth factor of anterior pituitary. Lewis, A. A., and C. W. Turner, 55, 78—ab
—— and hormones, present status in cancer research. Morton, J. J., 330—ab
—— antagonism between one malignant tumor and appearance of another in same animal. Bonser, G. M., *et al.*, 505—ab
—— Bantu liver extracts. Des Ligneris, M. J. A., 75—ab
—— biologic testing, lung tumors. Andervont, H. B., *et al.*, 250—ab
—— —— —— subcutaneous injection technique. Shimkin, M. B., 250—ab
—— chemical, detoxification. Rhoads, C. P., 742*
—— conjugation of horse serum albumin with benzanthryl isocyanates. Creech, H. J., *et al.*, 329—ab
—— effect on Eberthella typhi. Spencer, R. R., *et al.*, 251—ab
—— —— on paramecia. Mottram, J. C., 313, 330—ab
—— —— on paramecium. Spencer, R. R., *et al.*, 423—ab
—— endogenic blastogenic substances. Kleinenberg, H. E., *et al.*, 76—ab
—— growth of yeasts. Childs, W. A., J. W. Spies, and J. K. Cline, 741*
—— human tissues as source. Des Ligneris, M. J. A., 75—ab
—— hydrocarbons, choleic acids, failure to alter permeability of marine eggs and of mammalian erythrocytes. Lucké, B., A. K. Parpart, and R. A. Ricca, 709, 766—ab
—— induced tumors, in fowls. Murphy, Jas. B., and E. Sturm, 477, 506—ab
—— in lipids, induction of tumors in rats. Davenport, H. A., J. L. Savage, M. J. Dirstine, and F. B. Queen, 821, 825—ab
—— intestinal carcinoma, other lesions in mice, after oral administration of dibenzanthracene and methylcholanthrene. Lorenz, E., *et al.*, 77—ab
—— new compounds; factors affecting latent period of tumor production. Bradbury, J. T., W. E. Bachmann, and M. G. Lewisohn, 685, 766—ab
—— sulfanilamide. Haerem, A. T., 744*
—— sulfhydryl and cysteine derivatives of benzanthracene and benzpyrene. Wood, J. L., *et al.*, 330—ab
—— thorium dioxide, effect in mice. Andervont, H. B., *et al.*, 422—ab
—— urine from cancer patients. Bowman, R. O., and R. H. Mottshaw, 308, 335—ab
Carcinoid, stomach tissue within ovarian dermoid. Gabrilove, J. R., 681—ab
—— tumors, unusual location. Ashworth, C. T., *et al.*, 841—ab
Carcinolysis. Christiani, A., 335—ab
Carcinoma erysipelatodes. Camiel, M. R., *et al.*, 834—ab
Carcinoma, multiple primary. Lamson, O. F., 91—ab
—— skin, interrelation with spindle cell sarcoma. Strong, L. C., 572, 584—ab, 738*
—— primary, in Negro. Quinland, W. S., *et al.*, 89—ab
Cardeza, A. *See* Marano, A., 343—ab
Care, institutional, cancer patient. Adair, F. E., 587—ab
Carlson, H. E., *et al.*, 847—ab
Carmack, M. *See* Bachmann, W. E., 668—2 ab
Carotid body tumor. Bowers, W. F., 918—ab
Carruthers, C., 81—ab
—— **and R. E. Stowell.** Influence of heptaldehyde on pregnancy in rats, 724, 766—ab
Carson, W. J., 89—ab
Carter, B. N., 90—ab
Casey, A. E. Experiments with a material from the Brown-Pearce tumor, 134, 172—ab
Casilli, A. R., *et al.*, 90—ab
Cason, J., *et al.*, 326—ab, 668—ab
Castellanos, U. *See* Huergo Pino, M., 176—ab
Castex, M. R., *et al.*, 341—ab
Castleman, B. *See* Benedict, E. B., 839—ab
Castration and sarcogenesis. Woglom, W. H., 671—ab
—— effect on cancer of prostate. Huggins, C., *et al.*, 340—ab
—— effects in dilute brown mice. Woolley, G., *et al.*, 170—ab
Cathcart, J. A. *See* Newman, M. S., 506—ab
Cathepsin, autolytic, activity of sarcoma tissue. Utzino, S., *et al.*, 83—ab
Cattle, cancer, gonadotropins in urine. Velazquez, J., *et al.*, 586—ab
Caulk, R. M., 675—ab
Cecum and ascending colon, malignant lesions. Mayo, C. W., *et al.*, 514—ab
—— carcinoma, simulating appendicitis. Stoll, J. B., 515—ab
Cell and radiation. Henshaw, P. S., 428—ab
—— division. Lewis, W. H., and M. R. Lewis, 749*
Cells, cancer, properties. Cowdry, E. V., 85—ab
Cellular injury, proliferative and neoplastic response. Menkin, V., 548, 580—ab, 752*
Cerebellum, hemangioblastoma, pneumo-encephalographic appearance. Dyke, C. G., *et al.*, 87—ab
—— tumors, visual field defects. Weinberger, L. M., *et al.*, 833—ab
Chaffin, L. *See* Hall, E. M., 918—ab
Chaikoff, I. L. *See* Entenman, C., 585—ab
—— *See* Jones, H. B., 428—2 ab
Chalkley, H. W., *et al.*, 82—ab
Chalmers, J. G., *et al.*, 167—ab
Chamberlin, T. L. *See* Gardner, W. U., 582—ab
Chaoul method, early results in treatment of cancer of skin. Hatchette, S., 680—ab
Chapman, F. D., 918—ab
Charache, H., 87—ab, 914—ab
Charteris, A. A., 86—ab
Chaume, J. *See* Lipschütz, A., 425—ab
Cheever, F. S., 431—ab
—— **and C. A. Janeway.** Immunity induced against the Brown-Pearce carcinoma, 23, 84—ab
—— *See* Favorite, G. O., 136, 174—ab
Chemerda, J. M. *See* Bachmann, W. E., 505—2 ab
Chemical compounds, normally occurring intracellular, role in growth and development. Reimann, S. P., 83—ab
Chemodiagnosis of malignancy. Woodhouse, D. L., 587—ab
Chemosurgery, treatment of cancer in rats. Mohs, F. E., and M. F. Guyer, 49, 81—ab
—— —— —— microscopically controlled method. Schmidt, E. R., *et al.*, 432—ab
Chemotherapy, cancer, aldehydes and derivatives. Boyland, E., 81—ab

—— —— experiments. Boyland, E., 509—ab
Chen, T. *See* Utzino, S., 83—ab
Chicken. *See also* Fowl
Chicken, lymphosarcoma, transplantable. Pentimalli, F., 69, 85—ab
—— transmissible lymphoid tumor. Olson, C., Jr., 413, 432—ab
—— tumor agent, purified, antigenic nature. Barrett, M. K., 543, 583—ab
—— tumors and leukoses, metabolism. Burk, D., H. Sprince, E. A. Kabat, and J. Furth, 732*
Childs, A. E., 769—ab
Childs, W. A., J. W. Spies, and J. K. Cline. Growth of yeasts in the presence of carcinogens, 741*
Chlor-compounds, hydrolyzing, retarding rate of tumor induction. Crabtree, H. G., 39, 82—ab
Cholanthrene derivatives, comparative carcinogenicity. Law, L. W., and M. Lewisohn, 695, 766—ab
—— homologs, comparison of fluorescence intensity. Bruce, W. F., 328—ab
Cholecystostomy fistulae, for small laboratory animals. Peacock, P. R., 831—ab
Choleic acids of carcinogenic hydrocarbons, failure to alter permeability of marine eggs and of mammalian erythrocytes. Lucké, B., A. K. Parpart, and R. A. Ricca, 709, 766—ab
Cholesterol and carcinogenic compounds. Bergmann, W., 167—ab
Choline, epithelial hyperplasia in forestomach of rats. Sharpless, G. R., 254—ab
Chondromatosis, multiple, and Ollier's disease. Pique, J. A., *et al.,* 177—ab
Chont, L. K., 256—ab
Chordal ectopia, possible relation to chordoma. Horwitz, T., 844—ab
Chordoma of bassiocciput and bassisphenoid, 4 cases. Boldrey, E., *et al.,* 842—ab
—— sacro-coccygeal. Bowers, W. F., 843—ab
Chorioma, testicle. McNamara, F. P., *et al.,* 914—ab
Chorionepithelioma. Smith, E. C., *et al.,* 681—ab
—— in male, extragenital origin. Erdmann, J. F., *et al.,* 340—ab
—— primary, of ovary, Backus, G. R., *et al.,* 681—ab
Choroid, gelatinous cancer following carcinoma of rectum. von Sallman, L., 834—ab
—— melanoma, with abdominal metastases. Thompson, H. E., *et al.,* 913—ab
—— metastatic carcinoma, primary focus in prostate gland. Kulvin, M. M., 683—ab
Choroid plexus calcification, displacement by intracranial lesions. Childs, A. E., 769—ab
—— —— meningioma. Woolsey, R. D., *et al.,* 913—ab
—— —— papilloma: Herren, R. Y., 769—ab
—— —— stromal tumors. Liber, A. F., *et al.,* 87—ab
Christiani, A., 335—ab
Christie, A. C., 834—ab, 837—ab
Christopher, F. *See* Benjamin, E. L., 91—ab
Chromaffin cell tumor, adrenal. Allen, P. L., 847—ab
Chromosomal nature, nucleoli. Lewis, W. H., 336—ab
Chrysene, orientation. Newman, M. S., *et al.,* 506—ab
Chrysenes, methyl, and related compounds, synthesis. Bachmann, W. E., *et al.,* 505—ab
Chumley, C. L., 835—ab
Churchill, E. D., 341—ab
Ciliary body, benign melanoma. Givner, I., 834—ab
Cinelli, A. A., 843—ab
Ciocco, A., 438—ab
Citric acid, animal tissues. Dickens, F., 172—ab
Clarke, B., 91—ab
Clarke, T. H. *See* Brunschwig, A., 85—ab, 434—ab
Classification, clinical, cancer of cervix. Schmitz, H. E., *et al.,* 681—ab
Claude, A. Consideration of factors which promote and hinder the growth of cancer, 741*
Clerf, L. H., 837—ab
Cleveland, R., *et al.,* 581—ab
Climate, effect on genesis of methylcholanthrene-induced skin cancers and growth of transplantable sarcoma in C3H mice. Wallace, E. W., and C. A. Mills, 743*
—— conditions acting during childhood and adolescence, and cancer. Peller, S., *et al.,* 510—ab
Cline, J. K. *See* Childs, W. A., 741*
—— *See* Woelfel, W. D., 748*
Clinics, cancer, approved by American College of Surgeons. 592—ab
—— tumor, in voluntary hospitals, organization and function. Saunders, H. P., 980—ab
Clowes, G. H. A. *See* Davis, W. W., 167—ab
Coachman, E. H., 769—ab
Cocarcinogenesis. Sall, R. D., *et al.,* 77—ab
—— croton resin. Berenblum, I., 44, 75—ab
—— related phenomena. Berenblum, I., 807, 825—ab
Code, morbidity statistics, tabulation. Parran, T., *et al.,* 94—ab
Cohen, I., 590—ab
Cohen, M. *See* Wigby, P. E., 257—ab
Cohen, P. P., and G. L. Hekhuis. Transamination in tumors, fetal tissues, and regenerating liver, 620, 672—ab
Cohn, M. *See* Behrens, O. K., 335—ab
Cohn, W. E. *See* Brues, A. M., 434*
Colby, F. H., 836—ab
Colchicine and ethylcarbylamine, actions on tissue cultures. Tennant, R., *et al.,* 83—ab
—— and x-ray, effect on transplantable mammary carcinoma in mice. Hirshfeld, *et al.,* 80—ab
—— bacterial products, effect on tumors in mice. Andervont, H. B., 429—ab
—— effect on mitotic activity of Brown-Pearce rabbit epithelioma. DuBilier, B., and S. L. Warren, 966, 979—ab
—— local application, reaction genital tissues, female mouse. Williams, W. L., *et al.,* 831—ab
Cole, R. K. Genetic resistance to a transmissible sarcoma in the fowl, 714, 766—ab
—— **and J. Furth.** Experimental studies on the genetics of spontaneous leukemia in mice, 957, 977—ab
—— *See* Barnes, W. A., 99, 171—ab
—— *See* Furth, J., 739*
Coley, B. C., 843—ab
Colillas, D., *et al.,* 176—ab, 257—ab
—— *See* Althabe, A., 176—ab
Coll, J., *et al.,* 512—ab
Coller, F. A., 434—ab
Collins, N. C., *et al.,* 918—ab
Collins, S. D., *et al.,* 515—ab
Collip, J. B. *See* Noble, R. L., 332—2 ab
Colon, adenomatosis, surgical treatment. Rankin, F. W., 980—ab
—— and stomach, carcinoma, diagnosis. Oughterson, A. W., 979—ab
—— cancer, in twins. Coll, J., *et al.,* 512—ab
—— —— treatment. Voldeng, K. E., 842—ab
—— carcinoma, early diagnosis. Hanchett, M., 513—ab
—— —— in a child. Laird, T. K., 841—ab
—— —— metastases, regional lymphatic. Coller, F. A., 434—ab
—— —— surgical management. Hunt, V. C., 513—ab
—— descending, carcinoma. Pressly, T. A., 514—ab
—— lipoma. Barnes, F. L., *et al.,* 512—ab
—— lipoma, submucous. Gault, J. T., *et al.,* 841—ab
—— transverse, fibroma. Watson, E. A., *et al.,* 842—ab
Combes, F. C., *et al.,* 916—ab
Comfort, M. W. *See* Sharpe, W. S., 842—ab
Complement fixation, Brown-Pearce carcinoma. Cheever, F. S., 431—ab
—— —— Brown-Pearce carcinoma, tests in rabbits. Jacobs, J. L., *et al.,* 674—ab
—— fixing capacity of rabbit-papilloma-virus protein. Bryan, W. R., 255—ab
Congenital neoplasms, malignant, occurrence and significance. Wells, H. G., 87—ab
Congo red index of rabbits, effect of prolonged x-radiation. Hoch-Ligeti, C., 28, 81—ab

Conjunctiva, lymphoma. Jensen, J. P., 846—ab
Conjunctive tumoral reaction of guinea pig toward natural and artificial estrogens, sex difference. Lipschütz, A., L. Vargas, Jr., and J. Palma, 575, 582—ab
Connecticut, Association of Tumor Clinics, 14th meeting, 592—ab
—— 15th meeting, 438—ab
—— 16th meeting, 438—ab
—— 17th meeting, 438—ab
—— 18th meeting, 438—ab
Connecticut mortality in 1939. Welling, W. C., 592—ab
—— Tumor Clinics, treatment of cancer of uterus. Miller, J. R., 683—ab
Cook, E. N., *et al.,* 176—ab
Cook, J. W., *et al.,* 75—2 ab, 167—ab, 505—ab
—— *See* Badger, G. M., 166—ab
Coons, A. H. *See* Muus, J., 671—ab
Cooper, F. S. *See* Zahl, P. A., 335—ab, 828—ab
Cooper, G. *See* Archer, V. W., 87—ab
Cooper, W. A., 841—ab, 979—ab
Cornell, N. W., *et al.,* 841—ab
Cortin and cysteine, effect on adenocarcinoma of breast in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.,* 335—ab
Cosco, N. P., *et al.,* 846—ab
Costa, L. P. *See* Bengolea, A. J., 175—ab
Costolow, W. E., 340—ab
Couch, J. H., 911—ab
Counsellor, V. S., *et al.,* 89—ab
—— *See* Cook, E. N., 176—ab
Cowdry, E. V., 85—ab, 668—ab, 905—ab
—— *See* Paletta, F. X., 942, 975—ab
Cowie, D. B., *et al.,* 910—ab
Cox, A. J., Jr. *See* Wilson, R. H., 595, 670—ab
Crabtree, H. G. Retardation of the rate of tumor induction by hydrolyzing chlor-compounds, 39, 82—ab
—— Stimulation of tumor induction by an inhibitor of cell glycolysis, 34, 82—ab
—— 75—ab, 178—ab
Craig, F. N., A. M. Bassett, and W. T. Salter. Artificial benignancy of neoplasm. VI. Observations on the oxidative behavior of tumors, artificially benign tumors, and homologous tissues, 869, 751*, 908—ab
Craig, P. E., *et al.,* 917—ab
Craig, W. McK., *et al.,* 769—ab
—— *See* Moersch, F. P., 770—ab
—— *See* Turner, O. A., 913—ab
Cramer, H., 436—ab
Cramer, W., 337—ab, 906—ab
—— **and R. E. Stowell.** Carcinogenesis in the mouse's skin by the infrequent application at long intervals of methylcholanthrene, 849, 905—ab
Crane, J. J. *See* Goin, L. S., 86—ab
Craver, L. F., 342—ab, 846—ab
—— *See* Abels, J. C., 771, 845—ab
—— *See* Sugarbaker, E. D., 93—ab
Creech, H. J., 328—ab, 329—ab, 668—2 ab
Creosote oil, basic fraction, effect on production of tumors by carcinogens. Sall, R. D., *et al.,* 77—ab
Crockett, R. H., 843—ab
Crooke, A. C., *et al.,* 429—ab
Crosbie, W. G., 683—ab
Crossan, J. W. *See* Goin, L. S., 676—ab
Crossen, H. S., 682—ab
Croton resin, cocarcinogenic action. Berenblum, I., 44, 75—ab
Crown gall, hyperauxiny. Link, G. K. K., and V. Eggers, 741*
Croxatto, O. *See* Brachetto-Brian, D., 341—ab
Cruickshank, D. B., 591—ab
Cuff, J. R. *See* Quinland, W. S., 89—ab
Curacao, incidence of malignant tumors, as indicated by autopsy. Hartz, P. H., 591—ab
Curtis, A. H., 681—ab
Curtis, G., 342—ab
Curtis, M. R., *et al.,* 674—ab
—— *See* Dunning, W. F., 168—ab
Cushing's syndrome. Albright, F. W., *et al.,* 917—ab
—— —— urinary androgens, diagnosis. Crooke, A. C., *et al.,* 429—ab
Cutler, M., 86—ab
Cystadenocarcinoma, papillary, ovary. Jones, F. H., 681—ab
—— —— pancreas. Kennard, H. E., 436—ab
Cystadenoma, multilocular, of ovary. MacFee, W. F., 682—ab
Cysteine and cortin, effect on adenocarcinoma of breast in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.,* 335—ab
—— and sulfhydryl derivatives of carcinogenic hydrocarbons. Wood, J. L., *et al.,* 330—ab
—— or cyanide, action on gonadotropic extracts. Bischoff, F., 424—ab
Cysticercus fasciolaris infestation, associated with adenomatous stomach lesion of rat. Blumberg, H., *et al.,* 422—ab
Cystine, dietary, effect on reaction of dilute brown mice. White, J., *et al.,* 978—ab
—— feeding, effect on experimental production of liver cancer. Mori, K., 830—ab
Cystosarcoma phyllodes, malignant. White, J. W., 913—ab
Cysts, traumatic epithelial. Hadley, H. G., 433—ab
Cytologic effects of therapeutic radiation. Fogg, L. C., and S. Warren, 649, 672—ab
Cytology, carcinoma of uterus. Kawanago, S., 89—ab
—— fibroblasts, in tissue culture transformed to sarcoma. Gey, G. O., 737*
—— spleen and lymph glands in mice treated with carcinogens. Parsons, L. D., *et al.,* 909—ab
Cytronberg, S., 91—ab

Dailey, M. E. *See* Schindler, R., 841—ab
Daland, E. M., 338—ab
Dale, W. M., 80—ab
Dandy, W. E., 589—ab
Danzi, M. V., E. Burack, and A. W. Wright. Abnormalities of breeding behavior in rats of the Albany (A-S) strain, 795, 827—ab
Darú, E., *et al.,* 437—ab
Daughaday, W. A comparison of the x-zone of the adrenal cortex in two inbred strains of mice, 883, 906—ab
Davenport, H. A., J. L. Savage, M. J. Dirstine, and F. B. Queen. Induction of tumors in rats by carcinogens in various lipids, 821, 825—ab
Davenport, H. A. *See* Orbison, J. L., 891, 907—ab
Davidoff, L. M., 769—ab
—— *See* Dyke, C. G., 87—ab
Davidson, B., 340—ab
Davis, A. C., 918—ab
Davis, E. D. D., 915—ab
Davis, H. H., 338—ab, 510—ab
Davis, J. H., *et al.,* 580—ab
Davis, W. W., *et al.,* 167—ab
Davison, T. C, *et al.,* 835—ab
Dean, A. L., *et al.,* 511—ab
DeBakey, M. *See* Ochsner, A., 343—ab, 344—ab, 514—ab, 840—ab
de Cholnoky, T., 432—ab, 512—ab, 910—ab
—— *See* Eggers, C., 338—ab
De Coursey, E. *See* Riwchun, M. H., 913—ab
DeEds, F. *See* Wilson, R. H., 595, 670—ab
del Regato, J. A., 511—ab
de Morais, V., 513—ab
Denes, J., 769—ab
de Oliveira-Campos, J., 258—ab
DeOme, K. B., 427—ab
Depolymerization of thymonucleic acid by an enzyme system in normal and cancerous hepatic and mammary tissues and in milk and sera of several species. Greenstein, J. P., *et al.,* 908—ab
Dermatofibroma. Stecker, J. F., *et al.,* 589—ab
Dermoid tumor in foramen magnum. Weinstein, E. A., *et al.,* 833—ab
DeSanto, D. A., *et al.,* 92—ab, 843—ab
des Ligneris, M. J. A., 75—ab, 168—ab
Desoxycorticosterone, lack of carcinogenic potency in mice. Shimkin, M. B., 976—ab

—— prevention of fibroids. Lipschütz, A., *et al.*, 507—ab
Deutsch, H. F., D. L. Miner, and H. P. Rusch. The effect of carcinogenic hydrocarbons and related compounds on the autoxidation of oils, 818, 825—ab
Development, intracellular compounds, normal, influence. Reimann, S. P., 83—ab
Diagnosis. *See also* various organs and lesions.
Diagnosis, cancer, *d*-peptidase activity of serum. Maver, M. E., J. M. Johnson, and J. W. Thompson, 751*
—— —— *d*-peptidase activity of serum. Maver, M. E., *et al.*, 910—ab
—— carcinoma of stomach and colon. Oughterson, A. W., 979—ab
—— early, cancer. Kaplan, I. I., 85—ab
—— gastroscopic, lymphosarcoma. Giere, C. N., 916—ab
—— histopathological, in course of surgical operations. Perrín, T. G., 256—ab
—— Pfeiffer crystallization method, cancer. Gruner, O. C., 586—ab
—— tissue culture, in identification of atypical tumors. Sano, M. E., *et al.*, 86—ab
—— tissue, rapid. Hellwig, C. A., 587—ab
Diamond, S., 840—ab
Diaphragm, fibrosarcoma. Hyman, M. A., *et al.*, 436—ab
Díaz Colodrero, A. A. *See* Colillas, D., 176—ab
—— *See* Masciottra, R. L., 257
Dibenzanthracene, and methylcholanthrene, adenocarcinoma of small intestine in mice by oral administration. Lorenz, E., and H. L. Stewart, 743*
—— effect on transplantable mammary adenofibroma of white rat. Davis, J. H., *et al.*, 580—ab
—— growth inhibition in rats. Alapy, H., 499, 508—ab
—— inducing lung tumors after injection into amniotic fluid in mice. Law, L. W., 330—ab
—— induction of squamous cell carcinoma of forestomach of mice after oral administration. Lorenz, E., *et al.*, 250—ab
—— intestinal lesions in mice, after oral administration. Lorenz, E., *et al.*, 77—ab
—— metabolic products. Boyland, E., *et al.*, 505—ab
—— synthesis, relation to products of metabolism of hydrocarbon. Cason, J., *et al.*, 328—ab
—— tumors, mice, cytology. Levine, M., *et al.*, 76—ab
Dibenzanthraquinone, dihydroxy. Cason, J., *et al.*, 668—ab
Dibenzyl disulfide, conversion to hippuric acid in rat. Stekol, J. A., 254—ab
Dickens, F., 172—ab, 509—ab
Dickinson, A. M., 87—ab
Dictyoma, early stage. Imre, H., 589—ab
Diet and hepatic tumor formation. Miller, J. A., D. L. Miner, H. P. Rusch, and C. A. Baumann, 699, 768—ab
—— cystine, effect on reaction of dilute brown mice to methylcholanthrene. White, J., *et al.*, 978—ab
—— dimethylaminoazobenzene, necrosis, cirrhosis and cancer of liver in rats. Gyorgy, P., *et al.*, 668—ab
—— effect of feeding liver on production of cancer by o-aminoazotoluol. Mori, K., 830—ab
—— —— —— —— on production of malignant tumors by carcinogenic substances. Mori, K., *et al.*, 77—ab
—— —— of millet feeding, inhibition of experimental liver cancer. Morigami, S., *et al.*, 830—ab
—— —— on growth-inhibiting action of sodium benzoate. White, A., 831—ab
—— —— on growth-retarding action of butter yellow. White, J., 431—ab
—— experimental liver cancer in rats, inhibition by rice-bran extract, yeast, and yeast extract. Sugiura, K., and C. P. Rhoads, 3, 83—ab
—— fat, and tumor formation. Lavik, P. S., 254—ab
—— —— effect on tumor formation. Jacobi, H. P., *et al.*, 82—ab
—— influence on experimental liver cancer. Ando, T., 81—ab, 429—ab, 584—ab
—— inhibition of butter yellow liver cancer. Sugiura, K., and C. J. Kensler, 745*
—— liver cancer, experimental, inhibitory effect of feeding animal tissues, especially kidney. Mori, K., 830—ab
—— relation to benign neoplasia (ulceropapillomas) of rat's stomach. Brunschwig, A., and R. A. Rasmussen, 371, 429—ab, 749*
—— riboflavin and casein, experimental liver cancer produced by dimethylaminoazobenzene. Kensler, C. J., *et al.*, 585—ab
Dilworth, W. M. *See* McLaughlin, C. W., Jr., 841—ab
Di Mario, M. *See* Duffield, T. J., 413, 438—ab
Dionisi, H., 257—ab
DiPaola, G. *See* Althabe, A., 176—ab
Dipeptides, hydrolysis, by carcinoma serum. Ura, S., 585—ab
—— splitting in cancerous and noncancerous serums. von Euler, H., *et al.*, 173—ab
Dirstine, M. J. *See* Davenport, H. A., 821, 825—ab
Diselenides, organic, distribution in tissues of tumor-bearing animals after injection. Gusberg, S. B., *et al.*, 509—ab
Disgerminoma, ovary complicated by pregnancy, estrogen determinations. Lorber, H., *et al.*, 681—ab
—— testicle. Kirschbaum, J. D., *et al.*, 89—ab
Dodds, E. C., 169—ab, 905—ab
Dobrovolskaïa-Zavadskaïa, N., *et al.*, 331—3 ab, 335—ab
—— *See* Zephiroff, P., 331—ab, 333—ab, 336—2 ab
Dohan, J. S. *See* Woodward, G. E., 768—ab
Doisy, E. A. *See* Doisy, E. A., Jr., 670—ab
Doisy, E. A., Jr., *et al.*, 670—ab
Doljanski, L., and M. Pikovski. Cultures in vitro of blood cells, bone marrow, and myocardium from leukotic fowls, 205, 255—ab
—— *et al.*, 174—ab, 508—ab
Donaldson, J. M. *See* McCorkle, R. G., 90—ab
Donaldson, S. W., *et al.*, 675—ab
Dorfman, R. I., *et al.*, 429—ab
—— *See* Ross, M., 52, 88—ab, 158, 173—ab
Dorn, H. F. *See* Collins, S. D., 515—ab
Dorton, H. E. *See* New, G. B., 839—ab
Doss, A. K. *See* McDonald, J. R., 837—ab
Doub, H. P., 91—ab, 513—ab
Drake, R. L., 913—ab
Dreyer, M. S. *See* Castex, M. R., 341—ab
Dreyfuss, M., 592—ab
Dreyfuss, M. L., 89—ab
—— *See* Plaut, A., 89—ab
Drosdovsky, C. *See* Zephiroff, P., 331—ab
Drosophila melanogaster, mutations by carcinogens. Auerbach, C., 166—ab
Drummond, D. H. *See* Frankman, C. F., 513—ab
Drummond, W. F. *See* Lloyd, T. P., 93—ab
DuBilier, B., and S. L. Warren. The effect of colchicine on the mitotic activity of the Brown-Pearce rabbit epithelioma, 966, 979—ab
Dublin, W. B., *et al.*, 91—ab
Duffield, T. J., and M. Di Mario. Cancer mortality in New York City, 413, 438—ab
Dukes, C. E., *et al.*, 915—ab
Dunlap, C. E., and S. Warren. Chemical configuration and carcinogenesis, 730*, 953, 975—ab
Dunning, J. R. *See* Zahl, P. A., 828—ab
Dunning, W. F., *et al.*, 168—ab
—— *See* Curtis, M. R., 674
Duodenum, carcinoma, primary. Masciottra, R. L., 176—ab
—— resection for tumor of ampulla of Vater. Hotsley, J. S., 434—ab
Duran-Reynals, F. Studies on the Rous virus in foreign species, 729*
—— 79—ab, 80—2 ab, 427—ab, 826—ab
Duren, N. *See* Singleton, A. O., 839—ab
Dyke, C. G., *et al.*, 87—ab
Dysentery, amebic, complicating diagnosis of carcinoma of rectum. Landsman, A. A., 590—ab

Earl, D. *See* Barringer, B. S., 683—ab
Eastland, W. E. *See* Lamb, J. H., 912—ab
Eberthella typhi, effect of carcinogens. Spencer, R. R., *et al.*, 251—ab

Edeiken, L., 92—ab
Edmonds, H. W., and J. W. Hawkins. The relationship of twins, teratomas, and ovarian dermoids, 896, 909—ab
Edwards, J. E., 843—ab
—— **and J. White.** Morphology of hepatic tumors in rats fed p-dimethylaminoazobenzene (butter yellow), 746*
—— *See* Munro, D., 770—ab
Egana, E. *See* Lipschütz, A., 425—ab
Eggers, C., *et al.,* 338—ab
Eggers, V. *See* Link, G. K. K., 741*
Ehrlich, D. E., *et al.,* 837—ab
Eisen, M. J. Tumor inhibition associated with secretory changes produced by estrogen in a transplanted mammary adenocarcinoma of the rat, 457, 506—ab, 736*
—— **and W. H. Woglom.** The nonspecific nature of induced resistance to tumors, 629, 673—ab
—— *See* Dunning, W. F., 168—ab
Electrodynamic fields, transplanted tumors, in mice. Burr, H. S., 828—ab
Electrosurgery, advanced cancer, and reconstruction. de Cholnoky, T., 910—ab
Elizalde, P. I., *et al.,* 342—ab
Ellinger, F., 593—ab
Elliott, K. A. C., 82—ab
Elmira tumor clinic, survey of work. Dreyfuss, M., 592—ab
Elward, J. F., *et al.,* 847—ab
Ely, J. O., 85—ab
Embryo and tumor growth, plasma phosphatase. Weil, L., 768—ab
—— mouse, early, technic for sections. Fekete, E., *et al.,* 336—ab
Embryoma mouse, transplantable. Jackson, E. B., and A. M. Brues, 494, 510—ab
—— testis, classification of neoplasms of testis. Melicow, M. M., 89—ab
Emge, L. A. *See* Davis, J. H., 580—ab
Emmart, E. W., 250—ab
Endocrine control of lipid metabolism in bird. Entenman, C., *et al.,* 585—ab
—— disturbances in childhood, neoplasms producing. Gross, R. E., 339—ab
—— salivary, and lymph glands, experimental tumors. Franseen, C. C., J. C. Aub, and C. L. Simpson, 489, 505—ab
Endocrines, tumors of ovary. Novak, E., 682—ab
Endometrioma, inguinal. Patterson, D. C., *et al.,* 683—ab
Endometriosis. Herr, E. A., 339—ab
—— action of testosterone propionate. Wilson, L., 588—ab
Endometrium, sarcoma. Fienberg, R., 88—ab
Engel, P. *See* Velazquez, J., 586—ab
Engelbreth-Holm, J. Acceleration of the development of mammary carcinomas in mice by methylcholanthrene, 109, 168—ab
—— **and H. Lefèvre.** Acceleration of the development of leukemias and mammary carcinomas in mice by 9,10-dimethyl-1,2-benzanthracene, 102, 168—ab
Engle, E. T., *et al.,* 85—ab
Entenman, C., *et al.,* 585—ab
Enzymes, x-ray effect. Dale, W. M., 80—ab
Epidermoid carcinoma of the extremities, lymph node involvement. Taylor, G. W., *et al.,* 433—ab
Epidermoidomas, cranial and intracranial. Schwartz, C. W., 175—ab
Epithelioma adenoides cysticum, tricho-epithelioma and basal cell cancer. Traenkle, H. L., 86—ab
—— in scar of burn. Halford, J. F., *et al.,* 912—ab
—— multiple benign cystic. Goldman, H. J., 86—ab
—— skin, results of therapy. Warren, S., *et al.,* 912—ab
—— squamous cell, and senile keratosis on leg of Negro. Spencer, G. A., 912—ab
Erdmann, J. F., *et al.,* 340—ab
Erf, L. A., *et al.,* 767—ab
—— *See* Marshak, A., 672—ab
Erich, J. B. *See* New, G. B., 839—ab
Erickson, T. C. *See* Penfield, W., 833—ab
Escalona, E., 257—ab
Esophagus, cancer, surgical treatment. Ferrari, R. C., *et al.,* 176—ab
—— carcinoma, from benign stricture. Benedict, E. B., 512—ab
—— —— surgical aspects. Ochsner, A., *et al.,* 514—ab
—— —— surgical treatment. Adams, W. E., 434—ab
—— fibroma. Barrett, N. R., 91—ab
—— leiomyosarcoma. French, L. R., *et al.,* 176—ab
—— sarco-carcinoma. Pearlman, S., 435—ab
—— thoracic, resection for carcinoma. Carter, B. N., 90—ab
Estrada, E. *See* Duran-Reynals, F., 427—ab
Estradiol benzoate, tumors produced in guinea pig. Woodruff, L. M., 367, 427—ab
—— comparative conjunctive tumorigenic action of 3 different esters. Lipschütz, A., *et al.,* 425—ab
—— monocaprylic ester, active tumorigenic estrogen. Lipschütz, A., *et al.,* 425—ab
Estrogen, cancer of cervix of uterus in hybrid mice. Allen, E., and W. U. Gardner, 359, 423—ab, 738*
—— effect on incidence of mammary and pituitary tumors in hybrid mice. Gardner, W. U., 345, 424—ab, 738*
—— effects on mammary gland of mice during pregnancy, lactation, and retrogression. Loeb, L., and V. Suntzeff, 439, 507—ab
—— glandular cystic hyperplasia of endometrium in castrated macaques. Cleveland, R., *et al.,* 581—ab
—— in female rat, suppressing development of reproductive function and sensitivity. Wilson, J. G., *et al.,* 426—ab
—— induced mammary tumors in female rats, regression following removal of stimulus. Noble, R. L., *et al.,* 332—ab
—— induction of mammary cancer in mice at different ages. Suntzeff, V., M. Moskop Kirtz, H. T. Blumenthal, and L. Loeb, 446, 507—ab
—— pellets, production of uterine tumors in guinea pig by local implantation. Perloff, W. H., *et al.,* 425—ab
—— testosterone and growth hormone in production of atypical epithelial growths in human cervical mucosa. Wollner, A., 507—ab
—— tumor inhibition associated with secretory changes in transplanted mammary adenocarcinoma of rat. Eisen, M. J., 457, 506—ab, 736*
—— tumors of testis. Bonser, G. M., *et al.,* 78—ab
Estrogenic effects of adrenal tumors of ovariectomized mice. Gardner, W. U., 632, 670—ab
—— hormones, pathological effects. Brumbrecht, P., 170—ab
—— substance, occurrence in ovaries of immature calves. Zephiroff, P., *et al.,* 331—ab
Estrogens and a carcinogen, stimulating secretion of mammogenic duct growth factor of anterior pituitary. Lewis, A. A., and C. W. Turner, 55, 78—ab
—— and androgens, effect on spontaneous benign mammary tumors. Heiman, J., 671—ab, 735*
—— —— —— excretion in males with mammary carcinoma. Yolton, N., *et al.,* 339—ab
—— —— —— urinary excretion by women with carcinoma of breast. Ross, M., and R. I. Dorfman, 52, 88—ab
—— carcinogenicity in human female. Geist, S. H., *et al.,* 169—ab
—— continuous and discontinuous treatment in experimental tumorigenesis. Lipschütz, A., *et al.,* 582—ab
—— determinations in disgerminoma ovarii complicated by pregnancy. Lorber, H., *et al.,* 681—ab
—— in rats, zoological specificity of tumoral reaction towards. Lipschütz, A., 425—ab
—— influence on incidence of tumors in foster nursed mice. Bittner, J. J., 290, 331—ab
—— large amounts, inhibition of mammary growth. Gardner, W. U., 251—ab
—— mice receiving, breaking strength of femurs. Gardner, W. U., 251—ab
—— natural and artificial, sex difference in conjunctive tumoral reaction of guinea pig. Lipschütz, A., L. Vargas, Jr., and J. Palma, 575, 582—ab
—— new. Dodds, E. C., 169—ab
—— occurrence in ovarian cysts. Watts, R. M., and F. L. Adair, 638, 682—ab, 752*

—— prolonged administration, inducing uterine and extragenital fibroids in guinea pig. Lipschütz, A., and L. Vargas, Jr., 236, 332—ab
—— —— —— uterine and extrauterine localizations of experimental fibroids induced in guinea pig. Lipschütz, A., *et al.*, 425—ab
—— response of mice, effect of foster nursing. Shimkin, M. B., *et al.*, 671—ab
—— solubilities. Doisy, E. A., Jr., *et al.*, 670—ab
—— synthetic, related to triphenylethylene. Schönberg, A., *et al.*, 79—ab
—— urinary, steroid excretion in cancerous and noncancerous persons. Pincus, G., and W. H. Pearlman, 970, 975—ab
Estrone, estradiol benzoate, and testosterone propionate, effect of long term stimulation of male and female rats. Mark, J., *et al.*, 582—ab
—— and stilbestrol, carcinogenicity in mice. Shimkin, M. B., *et al.*, 79—ab
—— local action on mammary glands of mice. Gardner, W. U., *et al.*, 582—ab
—— tablets, mammary tumors produced in rats. Noble, R. L., *et al.*, 332—ab
Estrus, anti-substance, from urine of 4-year-old female. Zephiroff, P., *et al.*, 333—ab, 336—ab
—— cycle, decidual reaction, influence on transplanted intrauterine tumors in mice. Hall, B. V., 174—ab
Etcheverry, M. A., *et al.*, 176—ab
Etiology, cancer in man, in light of animal experimentation. Cramer, W., 337—ab
—— —— present aspects. Forster, N. K., 909—ab
—— factors in some forms cancer. Quigley, D. T., 85—ab
Eugenics, relationship of inheritance of retinoblastoma, Weller, C. V., 517, 589—ab
Eustachian tube, squamous cell carcinoma. Stewart, H. L., *et al.*, 90—ab
Evans blue, intravital staining, malignant tumors in man. Brunschwig, A., *et al.*, 85—ab
Eveleth, M. S., and N. C. Wetzel. Rapid growth of a bronchiogenic carcinoma, 721, 840—ab
Everett, J. L., *et al.*, 76—ab
Ewing, J., 91—ab
Ewing's reticulosarcoma of bone marrow, necropsy. Itoh, M., *et al.*, 92—ab
Ewing's tumor, histogenesis. Foote, F. W., Jr., *et al.*, 844—ab
—— —— lower jaw. Nielsen, J., 845—ab
—— —— of bone. Gharpure, V. V., 844—ab
—— —— x-ray treatment. Crockett, R. H., 843—ab
Extrachromosomal factor in mammary cancer in mouse. Murray, W. S., 123, 171—ab
Extract, carcinogenic, human tissue. Steiner, P. E., 251—ab
Exudates, leukocytosis-promoting factor. Menkin, V., 431—ab
—— proliferation-promoting factors. Menkin, V., 580—ab
Eye, sympathetic ophthalmia caused by nonperforating intraocular sarcoma. Riwchun, M. H., *et al.*, 913—ab
Eyelids, epithelial tumors, management. Stroud, S. K., *et al.*, 589—ab

Face, basal cell carcinoma, recurrent, treatment. Young, F., 913—ab
Fahim, H. A. *See* Schönberg, A., 79—ab
Faier, S. Z., 837—ab
Failla, G., 80—ab
Falin, L. I., *et al.*, 580—ab
Fallopian tube, carcinoma. Walker, M. A., *et al.*, 681—ab
—— —— primary carcinoma. Baron, H. A., 681—ab
Farber, G. *See* Pierson, J. W., 845—ab
Farberov, B. E., *et al.*, 840—ab
Fariñas, P. L., 90—ab
Fat, dietary, and tumor formation. Lavik, P. S., and C. A. Baumann, 181, 254—ab
—— effect on tumor formation. Jacobi, H. P., *et al.*, 82—ab
Favorite, G. O., and F. S. Cheever. Observations on the Brown-Pearce carcinoma in roller tube tissue cultures, 136, 174—ab
Fay, T., 587—ab
Federal cancer control program. Voegtlin, C., *et al.*, 94—ab
Federspiel, M. N., 912—ab
Feeding device, for mice. Morris, H. P., *et al.*, 432—ab
Fein, M. J., 916—ab
Feinstein, R. N., *et al.*, 430—ab
Fekete, E., *et al.*, 336—ab
—— *See* Snell, G. D., 332—ab
—— *See* Woolley, G., 170—ab, 252—ab
Feldman, H., 93—ab
Fels, S. S. *See* Gershon-Cohen, J., 828—ab
Felsen, J., 590—ab
Femur, osteoid osteoma. Kleinberg, S., 844—ab
—— breaking strength in mice receiving estrogens. Gardner, W. U., 251—ab
Fennel, E. A. *See* Strode, J. E., 588—ab
Ferguson, A. B., 92—ab
Ferguson, R. L., *et al.*, 78—ab
Ferrando, F. F., 176—ab
Ferrari, R. C., *et al.*, 176—ab
Ferraro, F. P. *See* Greenlee, D. P., 842—ab
Fetterman, F. S. *See* MacFarlane, C., 258—ab
Fettermen, G. H. *See* Moran, T. J., 917—ab
Fibroblasts, dividing, motion pictures. Lewis, W. H., 336—ab
—— mouse heart, effect of macromolecular material from chick embryos on growth rate in cultures. Tennant, R., *et al.*, 254—ab
Fibrohemangioma of orbit, transcranial extirpation. Sonders, B. F., 834—ab
Fibroids, uterine and extragenital, induced in guinea pig by prolonged administration of estrogens. Lipschütz, A., and L. Vargas, Jr., 236, 332—ab
Fibroma, musculofascial layers of abdominal wall. Waugh, J. M., 92—ab
—— thenar space, ossifying. Kyle, B. H., 845—ab
—— transverse colon. Watson, E. A., *et al.*, 842—ab
Fibromyoma, spontaneous, in female guinea pig. Lipschütz, A., 832—ab
—— stomach, with adenoma of adrenal in guinea pigs. Papanicolaou, G. N., *et al.*, 832—ab
Fibromyomas uterus, hormonal therapy. Greenblatt, R. B., *et al.*, 682—ab
—— —— treatment. Costolow, W. E., 340—ab
Fibromyxosarcomas, primary, of heart and pulmonary artery. Haythorn, S. R., *et al.*, 840—ab
Fibrosarcoma, bone, experimental production. Franseen, C. C., *et al.*, 422—ab
—— diaphragm. Hyman, M. A., *et al.*, 436—ab
—— perineural, vagus sheath. Furrer, E. D., *et al.*, 769—ab
—— periosteal. Batts, M., Jr., 842—ab
—— plantar tissues. Collins, N. C., *et al.*, 918—ab
Field electrodynamic, changes, in mice with transplanted tumors. Burr, H. S., 828—ab
Fienberg, R., 88—ab, 843—ab
Fieser, L. F. *See* Cason, J., 328—ab, 668—ab
—— *See* Hershberg, E. B., 430—ab
—— *See* Wolfe, J. K., 333—ab, 431—ab
—— *See* Wood, J. L., 330
Figge, F. H. J., and L. C. Strong. Xanthine oxidase (dehydrogenase) activity in livers of mice of cancer-susceptible and cancer-resistant strains, 779, 828—ab
Figi, F. A., 90—ab
Fine, A. *See* Brown, S. J., 848—ab
Fish, E. W., 843—ab
Fish melanoma compared with mammalian melanoma cell types in tissue culture. Grand, C. G., M. Gordon, and G. Cameron, 660, 675—ab
—— melanomas, genetics. Gordon, M., 656, 671—ab
Fishback, H. R., 912—ab
Fister, G. M., 89—ab
Fitzgerald, J. S., 684—ab
Fleischer, A. J. *et al.*, 835—ab
Flinn, L. B., *et al.*, 848—ab
Flory, C. M. The production of tumors by tobacco tars, 262, 329—ab, 744*
Fluorescence, cholanthrene and homologs, comparative. Bruce, W. F., 328—ab
Flynn, J. M., 437—ab, 848—ab

Fogg, L. C., and S. Warren. Some cytologic effects of therapeutic radiation, 649, 672—ab
Foot, N. C., 87—2 ab
—— *See* Ray, B. S., 833—ab
Foote, F. W., Jr., *et al.,* 835—ab, 844—ab
Foramen magnum, dermoid tumor. Weinstein, E. A., *et al.,* 833—ab
Forbes, A. P. *See* Fraser, R. W., 509—ab
Forster, N. K., 909—ab
Foster, E. G. *See* Baumann, C. A., 508—ab
Foster, J. H., 837—ab
Foster, M. A., *et al.,* 917—ab
Fowl, genetic resistance to transmissible sarcoma. Cole, R. K., 714, 766—ab
—— paralysis (neurolymphomatosis), etiology and morbid anatomy. Blakemore, F., *et al.,* 336—ab
—— rooster, teratoma of testis, induced by zinc nitrate. Falin, L. I., *et al.,* 580—ab
Fowls, induced tumors. Murphy, Jas. B., and E. Sturm, 477, 506—ab
—— —— —— further investigation of transmission. Murphy, Jas. B., and E. Sturm, 609, 669—ab
—— lymphomatosis, sex hormones. Marine, D., *et al.,* 671—ab
Fox, I. R. *See* Furrer, E. D., 769—ab
Franco, S. C., 848—ab
Frank, L. W., *et al.,* 914—ab
Frankman, C. F., *et al.,* 513—ab
Franseen, C. C., J. C. Aub, and C. L. Simpson. Experimental tumors in lymph nodes and in endocrine and salivary glands, 489, 505—ab
—— —— and —— The experimental production of fibrosarcomas of bone, 393, 422—ab
Frantz, V. K., 848—ab
Fraser, R. W., *et al.,* 509—ab
French, L. R., *et al.,* 176—ab
Fricke, R. E., *et al.,* 910—ab
Fried, C., 86—ab
Fried, J., *et al.,* 86—ab
Friedell, H. L., *et al.,* 837—ab
Friedewald, W. F., *et al.,* 427—ab, 674—ab, 826—ab, 827—ab
Friedgood, H. B. *See* Wolff, J. K., 333—ab
Friedland, L. M., 91—ab
Friedlander, G. *See* Erf, L. A., 767—ab
Friedman, H. H. *See* Grayzel, D. M., 845—ab, 914—ab
Friedman, M., 256—ab
Friedrich-Freksa, H., 331—ab
Frog carcinoma, effect of temperature on growth. Lucké, B., *et al.,* 255—ab
—— —— heterotransplantation, growth in eyes of alien species. Lucké, B., *et al.,* 255—ab
Froug, C., 684—ab
Fuel oil, distillates, producing carcinomas in rabbits. Roffo, A. H., 169—ab
Fukukei, I., *et al.,* 86—ab
Fuller, R. H., 915—ab
—— **E. Brown, and C. A. Mills.** Environmental temperatures and spontaneous tumors in mice, 130, 171—ab
—— *See* Aoring, C. D., 917—ab
Furrer, E. D., *et al.,* 769—ab
Furst, N. J. *See* Levinson, L. J., 909—ab
Furth, J., *et al.,* 431—ab
—— **and W. A. Barnes.** Differences between malignant blood cells from induced and spontaneous leukemias of mice, 17, 84—ab
—— **and R. K. Cole.** The role of heredity and extrinsic factors in the causation of leukemia, 739*
—— *See* Burk, D., 732*
—— *See* Cole, R. K., 957, 977—ab
—— *See* Kabat, E. A.,673—ab

Gabriel, W. B., 513—ab
Gabrilove, J. L., 681—ab
Gafafer, W. M., 93—ab
Gainey, J. J., *et al.,* 91—ab
Gale, J. W. *See* Hidde, F. G., 88—ab
Gall bladder, carcinoma. Van Zandt, I. L., 842—ab
—— —— —— early retractive mesenteritis. Raedemaker, L., 980—ab
—— —— —— primary. Greenlee, D. P., *et al.,* 842—ab
Gall, E. A., *et al.,* 846—ab
Galt, R. M. *See* Orbison, J. L., 891, 907—ab
Ganglioneuroma of stomach, associated with von Recklinghausen's disease. Moene, I., 435—ab
—— mediastinal. Curtis, G., 342—ab
Garai, F. Heptyl aldehyde-sodium bisulfite: toxicity and effect on spontaneous mammary carcinoma in mice, 144, 172—ab
Gardner, R. E. *See* Blumberg, H., 422—ab
Gardner, W. J., *et al.,* 834—ab
Gardner, W. U. The effect of estrogen on the incidence of mammary and pituitary tumors in hybrid mice. 345, 424—ab, 738*
—— Estrogenic effects of adrenal tumors of ovariectomized mice, 632, 670—ab
—— 251—3 ab, 582—ab
—— *See* Allen, E., 359, 423—ab, 738*
—— *See* Blaisdell, J. S., 283, 331—ab
—— *See* Kirschbaum, A., 255—ab
Garland, A., 910—ab
Garland, L. H. *See* French, L. R., 176—ab
Garlock, J. H., 841—ab
Gaspar, I. A., 836—ab
Gastrectomy, total, for linitis plastica. Jackson, J. A., 435—ab
Gastric cancer, diagnosis, early. Cytronberg, S., 91—ab
—— —— early, etiological indications. Ewing, J., 91[6]—ab
—— —— problem. Cooper, W. A., 841—ab, 979—ab
—— —— trend and geographic variation in cancer mortality and prevalence. Collins, S. D., *et al.,* 515—ab
—— carcinoma, preoperative, operative, and postoperative management. Best, R. R., 841—ab
—— lesions, ulcerating, surgical treatment. Walters, W., 92—ab
—— resection, partial, for carcinoma. Glenn, F., 513—ab
—— ulcer, intractable, final malignant change associated with benign tumor of brain. Thorlakson, P. H. T., *et al.,* 515—ab
Gastritis, gastric cancer as sequel, particularly gastritis of pernicious anemia. Rhoads, C. P., 516—ab
Gastrointestinal tract, carcinoma, metastasis to bone. Stein, J. J., 514—ab
—— —— myoepithelial hamartoma. Clarke, B., 91—ab
Gastropapillomatosis, vitamin A deficiency induced by heated fats. Beck, S., *et al.,* 908—ab
Gastroscopy, anatomic foundation of anacidity. Schindler, R., *et al.,* 92—ab
—— diagnosis of lymphosarcoma. Giere, C. N., 916—ab
—— in early diagnosis of cancer. Schindler, R., 516—ab
—— limitations. Jankelson, I. R., *et al.,* 513—ab
Gates, O. *See* Schrek, R., 680—ab
—— *See* Warren, S., 65, 85—ab, 86—ab
Gatewood, E. T., 838—ab
Gault, J. T., *et al.,* 841—ab
Gebauer, P. W., 840—ab
Geer, W. A., 437—ab
—— *See* Patterson, D. C., 683—ab
Gehrmann, G. H., 338—ab
Geist, S. H., *et al.,* 169—ab
—— *See* Mintz, N., 848—ab
Genes and viruses, determination of sizes by radiation methods. Lea, D. E., 170—ab
—— relation to lung tumors in mice. Heston, W. E., 740*
Genetic analysis of induction of carcinoma of mammary gland by methylcholanthrene. Strong, L. C., and W. L. Williams, 886, 907—ab
—— analysis of induction of tumors by methylcholanthrene. Strong, L. C., 572, 584—ab, 738*
—— —— of induction of tumors by methylcholanthrene, note on origin of NH strain of mice. Strong, L. C., 80—ab
—— change in tumor produced by x-ray. Reinhard, M. C., S. G. Warner, and H. L. Goltz, 653, 672—ab, 741*
—— constitution, influence on resistance to transplantable mouse tumors. Barrett, M. K., 427—ab

—— resistance to a transmissible sarcoma in fowl. Cole, R. K., 714, 766—ab
Genetical Congress, Seventh International, Proceedings, 438—ab
Genetics. *See also* Heredity
Genetics, adrenal x-zone. Daughaday, W., 883, 906—ab
—— carcinoma of lung in mice. Wells, H. G., M. Slye, and H. F. Holmes, 259, 337—ab, 752*
—— chemistry and cancer. Hammett, F. S., 253—ab
—— factors of cancer in mice. Little, C. C., 742*
—— growth rates of 9 inbred strains of mice. Howard, A., 503, 508—ab
—— human, retinoblastoma. Weller, C. V., 517, 589—ab
—— incidence of lung tumors in five related strains of mice and their hybrid derivatives. Slye, M., 740*
—— influence of hybridization upon susceptibility to tumors in mice. Andervont, H. B., 739*
—— ingestion of C3H milk in production of mammary tumors in strain C3H mice of different ages. Andervont, H. B., *et al.*, 977—ab
—— inheritance of susceptibility to lung tumors. Lynch, C. J., 740*
—— mice, C3H, spontaneous tumors. Andervont, H. B., *et al.*, 907—ab
—— milk factor. Warner, S. G., 738*
—— —— influence, breast tumors. Bittner, J. J., 738*
—— occurrence in whole blood of material influencing incidence of mammary carcinoma in mice. Woolley, G. W., L. W. Law, and C. C. Little, 955, 977—ab
—— of melanomas in fishes. Gordon, M., 656, 671—ab
—— of spontaneous tumor incidence, review of progress. Little, C. C., 907—ab
—— relationship between susceptibility to pulmonary tumors and known genes in mice. Heston, W. E., 740*
—— spontaneous leukemia, mice. Cole, R. K., and J. Furth, 957, 977—ab
—— susceptibility for tumors of breast in mice, foster nursing. Bittner, J. J., 793, 827—ab
Genital tissues of female mouse, reaction to local application of colchicine. Williams, W. L., *et al.*, 831—ab
Geographic variation, and trend, cancer mortality and prevalence, special reference to gastric cancer. Collins, S. D., *et al.*, 515—ab
German, W. J. *See* Turner, O., 918—ab
Gerontology, National Institute of Health, 94—ab
Gershon-Cohen, J., *et al.*, 828—ab
Gerundo, M., 840—ab
Gey, G. O. Cytological and cultural observations on transplantable rat sarcomata produced by the inoculation of altered normal cells maintained in continuous culture, 737*
Geymann, M. J., 513—ab
Gharpure, V. V., 844—ab
Giant cell tumors. Morais, E., 258—ab
Giere, C. N., 916—ab
Giffin, L. A. *See* Bargen, J. A., 591—ab
Gilbert, J. B., 89—2 ab
Gile, H. H. *See* Melicow, M. M., 93—ab
Gillman, J., 177—ab
Ginsberg, M. *See* Flinn, L. B., 848—ab
Givner, I., 834—ab
Glenn, F., 513—ab
—— *See* Kauer, J. T., 848—ab
Glioblastoma multiforme, anterior callosal, effects on entire brain. Canavan, M. M., 87—ab
Gliomas, mixed intracranial. Munro, D., *et al.*, 770—ab
Globus, J. H., 917—ab
Gloggengiesser, W., 513—ab
Glomus tumor, neuromyoarterial, in eyelid. Kirby, D. B., 680—ab
—— tumors. Couch, J. H., 911—ab
—— —— pathology. Blanchard, A. J., 911—ab
—— —— multiple. Plewes, B., 912—ab
Glucose, fructose, galactose, production of sarcoma in mice. Takizawa, N., 78—ab
—— tolerance test in relation to cancer. Rohdenburg, G. E., 311, 437—ab
Glutamic acid in tumor hydrolysates. Mathers, R. G., 146, 173—ab
—— —— normal and cancerous tissue. Johnson, J. M., 83—ab
—— —— of malignant tissue proteins. Woodward, G. E., *et al.*, 768—ab
Glycogen, Walker tumor 256. Ball, H. A., 974*
Glycolysis, inhibitors, retarding tumor induction. Crabtree, H. G., 82—ab
—— stimulation of tumor induction by an inhibitor. Crabtree, H. G., 34, 82—ab
—— tumor, thyroid and thiamin, effect on growth and glycolysis, Walker sarcoma 319 in rats. Beck, F. F., and J. C. Krantz, Jr., 188, 251—ab
Gnassi, A. M., 842—ab
Goeckerman, W. H., *et al.*, 510—ab
Goin, L. S., *et al.*, 86—ab, 676—ab
Goldberg, J. *See* Fried, J., 86—ab
Goldberg, S. A., 93—ab
Goldblatt, H. *See* Gyorgy, P., 668—ab
Goldfeder, A. The effects of reduced temperatures upon the growth and metabolic changes of sarcoma 180 grown in vivo, 220, 253—ab
—— 334—ab
Goldhaber, G. *See* Doljanski, L., 508—ab
Goldman, A., *et al.*, 342—ab
—— *See* Brunn, H., 90—ab
Goldman, D. W. *See* Smith, E. C., 681—ab
Goldman, H. J., 86—ab
Goldtz, H. L. *See* Reinhard, M. C., 653, 672—ab
Gonadotropic extracts, and action of cysteine or cyanide. Bischoff, F., 424—ab
Gonadotropins, in cattle with cancer, urinary excretion. Velazquez, J., *et al.*, 586—ab
Good, C. A., 915—ab
Gordon, E. J. *See* Lisa, J. R., 434—ab
Gordon, G., 89—ab
Gordon, M. Genetics of melanomas in fishes V. The reappearance of ancestral micromelanophores in offspring of parents lacking these cells, 656, 671—ab
—— *See* Grand, C. G., 660, 675—ab
Gordon test, in Hodgkin's disease. Steiner, P. E., 258—ab
Gordon, W. C., 434—ab
Gorin, M. H. *See* Abramson, H. A., 831—ab
Gotshalk, H. C., *et al.*, 90—ab
—— *See* Halford, J. F., 912—ab
Gould, H. V. *See* Heckel, N. J., 90—ab
Goulden, F. *See* Badger, G. M., 505—ab
Gover, M. *See* Collins, S. D., 515—ab
Grace, E. J., 675—ab
Grady H. G., H. F. Blum, and J. S. Kirby-Smith. Pathological features of tumors of strain A mice induced by ultraviolet radiation, 736*
—— *See* Kirby-Smith, J. S., 742*
—— *See* Shimkin, M. B., 79—ab, 426—ab, 976—2 ab
Graham, J. *See* Jones, A. J., 587—ab
Grand, C. G., M. Gordon, and G. Cameron. Neoplasm studies VIII. Cell types in tissue culture of fish melanotic tumors compared with mammalian melanoma, 660, 675—ab
Grant, F. C. *See* Weinberger, L. M., 833—ab, 917—ab
Granulosa and theca cell tumors, ovary. Henderson, D. N., 914—ab
Gray, H. K., 91—ab, 835—ab
Gray, L. H., *et al.*, 334—ab
Grayzel, D. M., *et al.*, 845—ab, 914—ab
Greaves, F. C., 342—ab
Greenblatt, R. B., *et al.*, 682—ab
Greene, R. R., *et al.*, 835—ab
Greenlee, D. P., *et al.*, 842—ab
Greenstein, J. P., *et al.*, 82—2 ab, 430—2 ab, 673—ab, 908—ab, 978—ab
—— **W. V. Jenrette, G. B. Mider, and J. White.** The relative arginase activity of certain tumors and normal control tissues, 732*

—— *See* Hollaender, A., 977—ab
Gregg, R. O. *See* Dublin, W. B., 91—ab
—— *See* Masson, J. C., 89—ab
Griffin, E. P., Jr. *See* Backus, G. R., 681—ab
Gromzewa, K. E. *See* Falin, L. I., 580—ab
Groom, H. E. *See* Schindler, R., 92—ab
Gross L. The influence of sex of mice on acquired resistance to a transplantable sarcoma, 880, 907—ab
—— 674—ab
Gross, R. E., 339—ab
Growth, abnormal, in strain of rats with low fertility and high incidence of benign mammary tumors. Wolfe, J. M., *et al.,* 582—ab
—— inhibiting action of amines, resistance of tumor cells in tissue culture. Brues, A. M., and E. B. Jackson, 557, 585—ab
—— inhibition by butter yellow, effect of diet. White, J., 431—ab
—— —— by dibenzanthracene in rats. Alapy, H., 499, 508—ab
—— —— by sodium benzoate, effects of diet. White, A., 831—ab
—— intracellular compounds, normal influence. Reimann, S. P., 83—ab
—— rate, mesothelioma, pleura. Bohrod, M. G., 176—ab
—— rates, 9 inbred strains of mice. Howard, A., 503, 508—ab
Grumbrecht, P., 170—ab
Gruner, O. C., 586—ab, 911—ab
Guinea pig, carcinogenesis. Shimkin, M. B., and G. B. Mider, 751*
—— —— fibromyoma of stomach and adenoma of adrenal. Papanicolaou, G. N., *et al.,* 832—ab
—— —— spontaneous. Lipschütz, A., 832—ab
—— —— methylcholanthrene-induced tumors. Shimkin, M. B., *et al.,* 669—ab
—— —— spontaneous and induced tumors. Warren, S., and O. Gates, 65, 85—ab
Gunther, L. *See* Wolfson, S. A., 587—ab
Gusberg, S. B., *et al.,* 509—ab
Guyer, M. F. *See* Mohs, F. E., 49, 81—ab
Gynecological cancer, present status of treatment. Kamperman, G., 338—ab
Gyorgy, P., *et al.,* 668—ab

Haagensen, C. D., *et al.,* 252—ab
Habermel, J. F. 914—ab
Hadley, H. G. 433—ab
Haerem, A. T. The production of tumors in experimental animals with sulfanilamide, 744*
—— 329—ab
Hainan, 451 cases of cancer. N. Bercovitz, 154, 178—ab
Haines, C., 841—ab
Halford, J. F., *et al.,* 912—ab
Hall, B. V., 174—ab
Hall, D. P., 88—ab
Hall, E. M., *et al.,* 918—ab
Hall, N. D., 681—ab
Hall, W. C., 90—ab
Halley, E. P., *et al.,* 835—ab
Halpert, B. The incidence of carcinoma of the lung, 900, 915—ab
—— 342—ab, 434—ab, 838—ab
Halter, C. R., *See* Kensler, C. J., 585—ab
Hamartoma, myoepithelial, gastrointestinal tract. Clarke, B., 91—ab
Hamilton, C. E., *et al.,* 90—ab
Hamilton, J. B. The ectopic testis and tumorigenesis, 974*
—— *See* Dorfman, R. I., 429—ab
—— *See* Gilbert, J. B., 89—ab
—— *See* Wilson, J. G., 426—ab
Hamilton R. C. *See* Greenlee, D. P., 842—ab
Hamm, F. C., 89—ab
Hammett, F. S., 253—ab, 254—ab, 673—2 ab
Hanafusa, S., *et al.,* 90—ab
Hanchett, M., 513—ab
Hancock, J. D., *et al.,* 676—ab
Hansen, A. E., *et al.,* 842—ab
Harbert, F., 437—ab
Harris, F. I., *et al.,* 339—ab
Harris, P. N. Further observations on the induction of sarcoma following the injection of wheat germ oil, 751*
Harris, W. *See* Walter, R. I., 682—ab
Hart, C. A. *See* Lisa, J. R., 437—ab
Hartz, P. H., 591—ab
Hatchette, S., 680—ab
Hauptman, H. *See* Arneson, A. N., 88—ab
Hause, W. A. *See* Miller, F. R., 436—ab
Hauser, L. A. *See* Cornell, N. W., 841—ab
Haven, F. L., 254—ab
—— *See* McEwen, H. D., 148, 173—ab
Haverfield, W. T., *et al.,* 913—ab
Hawkins, J. W. *See* Edmonds, H. W., 896, 909—ab
Hawley, S. J., 256—ab
Hayes, H. T., *et al.,* 841—ab
Haythorn, S. R., *et al.,* 840—ab
Hayward, W. G., 90—ab
Head and neck, cancer, radiation treatment. Sharp, G. S., 678—ab
—— —— —— neoplasms, radiation therapy. Robinson, G. A., 911—ab
—— face, and neck tumors. Wolfer, J. A., 589—ab
Heart and pulmonary artery, primary fibromyxosarcomas. Haythorn, W. R., *et al.,* 840—ab
—— tumors. Lisa, J. R., *et al.,* 437—ab
Heck, F. H. *See* Baggenstoss, A. H., 93—ab
Heckel, N. J., *et al.,* 90—ab
Hegner, C. P. *See* Spencer, F. R., 845—ab
Heilman, C. O. *See* Fricke, R. E., 910—ab
Heiman, J. The effect of androgens and estrogens on spontaneous benign mammary tumors, 735*
—— 671—ab
Hekhuis, G. L. *See* Cohen, P. P., 620, 672—ab
Held, E., 683—ab
Hellwig, C. A., 587—ab
Hemangioblastoma, adrenal. Marten, M. E., *et al.,* 916—ab
—— cerebellum, pneumo-encephalographic appearance. Dyke, C. G., *et al.,* 87—ab
Hemangioma, and papillary carcinoma in bladder. Hyams, J. A., *et al.,* 914—ab
—— deep, cavernous, of neck. Laird, E. G., 916—ab
—— large bowel. Hunt, V. C., 434—ab
—— tibia, metastasis to popliteal artery. Fienberg, R., *et al.,* 843—ab
—— vertebral, with neurologic symptoms. Kelly, L. M. C., 844—ab
—— bone, multiple, congenital. Pierson, J. W., *et al.,* 845—ab
Hemangiomas, classification, treatment. Winer, L. H., 916—ab
Hemorrhagic disease, chicks, Rous and Fuginami viruses. Duran-Reynals, F., 80—ab
Hemsath, F. A. *See* Flinn, L. B., 848—ab
Henderson, D. N., 914—ab
Henline, R. B., 340—ab
Henshaw, P. S. The action of x-rays on sperm motility and subsequent embryonic development, 753*
—— 428—ab, 908—ab, 911—ab
Hepatoma cells, experimentally produced, cytology. Morigami, S., *et al.,* 83—ab
—— rat, provitamin D in experimentally produced. Kishi, S., *et al.,* 83—ab
—— relation of prolan to production. Ito, S., 78—ab
Heptaldehyde, influence on carcinogenic action of methylcholanthrene. Carruthers, C., 81—ab
—— influence on pregnancy in rats. Carruthers, C., and R. E. Stowell, 724, 766—ab
Heptyl aldehyde-sodium bisulfite, effect on spontaneous tumors of mammary gland in mice. Strong, L. C., 473, 510—ab
—— toxicity and effect on spontaneous mammary carcinoma in mice. Garai, F., 144, 172—ab
Heredity. *See also* Genetics
Heredity and extrinsic factors, role in causation of leukemia. Furth, J., and R. K. Cole, 739*

—— consanguinity rate in general hospital population of England and Wales. Bell, J., 909—ab
—— effect on susceptibility of rats to implants of induced sarcoma. Orbison, J. L., H. A. Davenport, F. B. Queen, D. D. Spicer, and R. M. Galt, 891, 907—ab
—— human, cancer. Bargen, J. A., *et al.*, 591—ab
—— —— —— Crabtree, J. A., 178—ab
—— neurofibromatosis in 4 brothers. Garland, A., 910—ab
Herger, C. C., *et al.*, 914—ab
—— *See* Watson, E. M., 684—ab
Herr, E. A., 339—ab
Herren, R. Y., 769—ab
Hershberg, E. B., *et al.*, 430—2 ab
—— *See* Wolfe, J. K., 431—ab
Hersperger, W. G., *et al.*, 680—ab
Herz, L. *See* Louria, M., 90—ab
Herzmark, M. H., 844—ab
Hess, M., 172—ab
Hesser, H. H. *See* Walker, M. A., 681—ab
Heston, W. E. A relationship between susceptibility to pulmonary tumors and known genes in mice, 740*
—— 80—ab
Heuer, G. J., 342—ab
Hewett, C. L., *et al.*, 76—ab
—— *See* Badger, G. M., 166—ab
—— *See* Cook, J. W., 167—ab
—— *See* Everett, J. L., 76—ab
Hibbe, H. B. *See* McNamara, F. P., 914—ab
Hibernation, artificial, therapy. Newman, M. K., *et al.*, 910—ab
Hidde, F. G., *et al.*, 88—ab
Hieger, I., 76—ab, 329—ab
Higgins, C. C., *et al.*, 837—ab
Higgins, W. H., 683—ab
Higinbotham, N. L. *See* Woodard, H. Q., 679—ab
Himson, G. W., 769—ab
Hinchey, P. R., 338—ab
Hinton, J. W. *See* Abrahamson, R. H., 91—ab
Hirschhorn, L. *See* Lisa, J. R., 437—ab
Hirshfeld, J. W., *et al.*, 80—ab
Histogenesis, Ewing's tumor. Foote, F. W., Jr., *et al.*, 844—ab
Histologic grading, relation of macronucleolus and nucleonuclear ratio. Mendes Ferreira, A. E., 832—ab
Histological diagnosis of carcinoma, basis. Meyer, R., 832—ab
Hobbs, J. E., *et al.*, 174—ab
Hoch-Ligeti, C. The effect of prolonged x-radiation on the Congo red index of rabbits, 28, 81—ab
—— Studies on the changes in the lymphoid tissue of mice treated with carcinogenic and noncarcinogenic hydrocarbons, 484, 506—ab
—— 76—ab
Hodges, C. V. *See* Huggins, C., 293, 340—ab
Hodges, F. J. *See* Peck, W. S., 88—ab
Hodgkin's disease and malignant tumors, maintenance of sedimentation rate of erythrocytes in vitro. Feldman, H., 93—ab
—— —— Gordon test. Steiner, P. E., 258—ab
—— —— lymphogranulomatosis, nervous system. Winkelman, N. W., *et al.*, 847—ab
—— —— x-ray therapy. Molinari, J. L., *et al.*, 178—ab
Hoffman, E. F. *See* Goin, L. S., 86—ab
Hoffman, J. G. *See* Murray, W. S., 298, 333—ab
Hoge, R. H., 913—ab
Hogeboom, G. W., 513—ab
Hollaender, A., 977—ab
Holland, L. F. *See* Tripoli, C. J., 91—ab
Holinger, P., *et al.*, 342—ab
Holman, E. *See* Samson, P. C., 841—ab
Holmes, H. F. *See* Wells, H. G., 259, 337—ab, 752*
Holst, J., 343—ab
Honeyburne, J. *See* Mayneord, W. V., 676—ab
Hooker, C. W. *See* Kirschbaum, A., 85—ab
Hormone fraction (Evans), highly purified follicle-stimulating, non-specific augmentation. Bischoff, F., 424—ab
—— sex, excretion rates in high and low tumor strains of mice. Aub., J. C., D. Karnofsky, and L. E. Towne, 737*
—— therapy of fibromyomas of uterus. Greenblatt, R. B., *et al.*, 682—ab
Hormones and carcinogenic hydrocarbons, preparations with the aid of dioctyl ester of sodium sulfosuccinate. Lorenz, E., *et al.*, 423—ab
—— and carcinogens, present status in cancer research. Morton, J. J., 330—ab
—— excretion of androgens and estrogens in males with mammary carcinoma. Yolton, N., *et al.*, 339—ab
—— sex, biochemistry. Butenandt, A., 169—ab
—— —— effect on cells in vitro. Von Haam, E., *et al.*, 79—ab
—— —— —— —— resistance to implanted neoplasm. Salter, W. T., I. R. Nathanson, and H. Wilson, 60, 79—ab
—— —— relation to malignant tumors. Friedrich-Freksa, H., 331—ab
—— significance in origin of cancer. Loeb, L., 256—ab
—— stimulation, response of cartilage and bone of newborn guinea pig. Silberberg, M., *et al.*, 426—ab
—— thyroid, pancreas, adrenal, effect on cells grown in vitro. Von Haam, E., *et al.*, 79—ab
Horowitz, E. A. *See* Mufson, S., 514—ab
Horrax, G., 769—ab
Horsley, S. J., 979—ab
Horwitz, T., 844—ab
Hotsley, J. S., 434—ab
Houghton, J. D. *See* Jacobs, J. L., 674—ab
Howard, A. Growth rates of nine inbred strains of mice, 503, 508—ab
Howard, J. E. *See* Pierson, J. W., 845—ab
Howes, W. E., *et al.*, 86—ab, 915—ab
Hsu, Chien-Liang, *et al.*, 81—ab, 828—ab
Hubeny, M. J., *et al.*, 511—ab
Hueper, W. C. Cutaneous neoplastic responses elicited in hairless rats and in their haired litter mates by ultraviolet rays, 402, 428—ab, 742*
Huergo Pino, M., *et al.*, 176—ab
Huffman, L. F., 684—ab
Huffman, M. N. *See* Doisy, E. A., Jr., 670—ab
Hufford, C. E. *See* Murphy, J. T., 257—ab
Huggins, C., and C. V. Hodges. Studies on prostatic cancer. I. The effect of castration, of estrogen and of androgen injection on serum phosphatases in metastatic carcinoma of the prostate, 293, 340—ab
Hummel, K. P. *See* Snell, G. D., 332—ab
Humphrey, H. *See* Coll, J., 512—ab
Humphreys, E. *See* Brunschwig, A., 93—ab
Hunt, E. L., *et al.*, 513—ab
Hunt, H. B., 86—ab
Hunt, V. C., 434—ab, 513—ab
Hurdon, E., 676—ab
Hürthle cell tumor, congenital. Symmers, D., 178—ab
Hutchinson, C. W., *et al.*, 177—ab
Hyams, J. A., et al., 914—ab
Hybridization, influence on susceptibility of mice to transplantable and spontaneous tumors. Andervont, H. B., 739*
—— mice, influence on natural resistance to sarcoma. Andervont, H. B., 976—ab
Hydrocarbon salts, formation of ions from compounds. Weiss, J., 506—ab
Hydrocarbons, carcinogenic, analysis, quantitative, of dose-response data. Bryan, W. R., *et al.*, 905—ab
—— —— and noncarcinogenic, effect on lymphoid tissue. Hoch-Ligeti, C., 484, 506—ab
—— —— tumors of spleen and liver. Shear, M. J., *et al.*, 423—ab
—— carcinogenicity, comparative. Shimkin, M. G., *et al.*, 77—ab
—— polycyclic aromatic. Badger, G. M., *et al.*, 505—ab
—— —— —— Cook, J. W., *et al.*, 75—ab
—— —— —— Everett, J. L., *et al.*, 76—ab
—— —— —— tetramethylphenanthrene. Hewett, C. L., *et al.*, 76—ab
—— —— interactions with sterols in mixed surface films at air-water surface. Davis, W. W., *et al.*, 167—ab
—— polynuclear, aromatic, conjugates with horse serum albumin. Creech, H. J., *et al.*, 668—ab
—— —— conjugates with proteins. Creech, H. J., *et al.*, 668—ab

—— pure, production of cancer. Badger, G. M., *et al.*, 166—ab
Hyman, M. A., *et al.*, 436—ab
Hynes, K. E., 88—ab
Hypernephroma, bilateral. Elward, J. F., *et al.*, 847—ab
—— unoperated cases, 10 years' duration. Carlson, H. E., *et al.*, 847—ab
—— with hyperplasia and metastatic carcinoma of adrenal. Tenenbaum, J., 848—ab
—— with metastases to scapula. Tylec, L. L., 848—ab
Hyperthyroidism and Shope papilloma, liver necrosis in rabbits. Sealy, W. C., 584—ab
Hypopharynx and larynx, suspension laryngoscopy in treatment malignant disease. New, G. B., *et al.*, 839—ab
Hypophysis, anterior, of cattle, effect of fresh and experimentally modified, on mitosis in adrenal cortex of guinea pig. Blumenthal, H. T., 424—ab
—— rat, age in relation to occurrence of adenoma-like lesions after transplantation. Saxton, J. A., Jr., 277, 332—ab
Hypothalamus, tumors, and precocious puberty. Weinberger, L. M., *et al.*, 833—ab
Hypothermia. *See also* Temperature
Hypothermia, physiologic and therapeutic effects. Talbott, J. H., 588—ab
Hysterostat, radium treatment of carcinoma of corpus uteri. Friedman, M., 256—ab

Iacapraro, G. *See* Roffo, A. E., 677—ab
Iglesias, R. *See* Lipschütz, A., 425—ab
Ileum, peritonitis following perforation of adenocarcinoma. Huergo Pino, M., *et al.*, 176—ab
—— carcinoma, primary, with metastases to the great omentum. Loewenberg, S. A., *et al.*, 841—ab
—— sarcoma, primary, with perforation. Frankman, C. F., *et al.*, 513—ab
Immunity. *See also* Resistance
Immunity, acquired, to transplantable sarcoma, influence of sex of mice. Gross, L., 880, 907—ab
—— antineoplastic, in the rabbit, relation to spontaneous regression of tumor. Gross, L., 674—ab
—— effect on growth of Brown-Pearce carcinoma, in eyes of rabbits. Saphir, O., M. Appel, and A. A. Strauss, 545, 586—ab
—— induced against Brown-Pearce carcinoma. Cheever, F. S., and C. A. Janeway, 23, 84—ab
—— —— to transplantable lymphatic leukemia in rats. Sturm, E., 627, 675—ab
—— natural, of mice, to growth of sarcoma, influence of hybridization. Andervont, H. B., 976—ab
—— to dibenzanthracene-induced sarcoma. Lewis, M. R., 84—ab
Imre, H., 589—ab
Incidence, cancer, relationship of body weight. Tannenbaum, A., 83—ab
—— decline, of mammary cancer in mice of inbred strain. Burrows, H., 121, 171—ab
—— familial, cancer. Crabtree, J. A., 178—ab
—— variability, of mammary carcinoma in inbred mice. Bittner, J. J., 115, 171—ab
Indolacetate, effect on growth of carcinoma in mice. Tanaka, A., *et al.*, 79—ab
Induction of tumor, rats, effect of lipids as vehicles for carcinogens. Davenport, H. A., J. L. Savage, M. J. Dirstine, and F. B. Queen, 821, 825—ab
—— —— —— retardation by hydrolyzing chlor-compounds. Crabtree, H. G., 39, 82—ab
—— —— —— retardation by substances inhibiting glycolysis. Crabtree, H. G., 82—ab
—— —— —— stimulation by an inhibitor of cell glycolysis. Crabtree, H. G., 34, 82—ab
Industrial poisons. Gehrmann, G. H., 338—ab
Infants and children, tumors, conservative surgery. Brunkow, C. W., 587—ab
Infectious processes, dynamics of inflammation. Menkin, V., 431—ab
Inflammation, dynamics, inquiry into mechanism of infectious processes. Menkin, V., 431—ab
—— proliferation-promoting factors in exudates. Menkin, V., 548, 752*
Infra-red photography applied to tumors. Braga, A., 256—ab
Inhibition, tumor, associated with secretory changes produced by estrogen in transplanted mammary adenocarcinoma of rat. Eisen, M. J., 457, 506—ab, 736*
Inhibitor and antibody, identity, in extracts of virus-induced rabbit papillomas. Friedewald, W. F., 826—ab
Intestinal polyposis, diagnosis, differential. Felsen, J., 590—ab
Intestine, large, carcinoma. Bieren, R. E., 512—ab
—— —— —— Buirge, R. E., 979—ab
—— —— hemangioma. Hunt, V. C., 434—ab
—— —— malignancies. Cohen, I., 590—ab
—— —— mitosis in specimens from carcinoma removed during day and night. Dublin, W. B., *et al.*, 91—ab
—— —— multiple primary malignant lesions. Schweiger, L. R., *et al.*, 92—ab
—— lesions after oral administration of carcinogens in mice. Lorenz, E., *et al.*, 77—ab
—— mucous membrane, metabolism. Dickens, F., *et al.*, 509—ab
—— small, argentaffin carcinoma. Willis, R. A., 591—ab
—— —— lymphosarcoma. Schaaf, R., *et al.*, 93—ab
—— —— —— primary. Benjamin, E. L., *et al.*, 91—ab
—— —— malignancy. Mayo, C. W., 514—ab
—— —— roentgenologic diagnosis of tumors. Doub, H. P., *et al.*, 513—ab
—— —— sarcomas, radiosensitivity. Chont, L. K., 256—ab
—— —— schwannoma. Collilas, D., *et al.*, 257—ab
—— —— tumefactive lesions. Good, C. A., 915—ab
Intracranial tumors and symptomatic epilepsy, relation. Penfield, W., *et al.*, 833—ab
—— —— in mental hospital patients, statistical. Larson, C. P., 591—ab
—— —— in three members of family. Patterson, G. H., *et al.*, 770—ab
—— —— indications for surgical treatment. Baily, P., 768—ab
Intrathoracic tumors, joint manifestations associated with. Van Hazel, W., 91—ab
Iron assimilation, in rat, influence of sex. Kletzien, S. W., 736*
Irradiation and surgery, treatment of large carcinomas of skin and lip. Hunt, H. B., 86—ab
—— cancer of cervix uteri. Cantril, S. T., *et al.*, 675—ab
—— effects on leukemic cells in marrow cultures. Osgood, E. E., 428—ab
—— fractional, on inoperable tumors. Fried, C., 86—ab
—— preoperative, breast. Howes, W. E., *et al.*, 86—ab
—— —— conception of cancer related. Caulk, R. M., 675—ab
—— technic, of cancer of uterine cervix, combining radium and supervoltage roentgen rays. Liljencrants, E., *et al.*, 676—ab
—— treatment, advanced superficial cancer, with 200,000 volts. Murphy, J. T., *et al.*, 257—ab
—— —— carcinoma of cervix uteri, symposium. Newell, K. R., *et al.*, 338—ab
—— —— skin cancer. Bogart, F. B., 256—ab
—— —— primary skeletal sarcoma. Brunschwig, A., *et al.*, 93—ab
Irritation, chronic, in induced lung tumors in mice. Shimkin, M. B., and Leiter, J., 250—ab
Israëls, M. C. G., 178—ab
Ito, M. *See* Naito, K., 588—ab
Ito, S., 78—ab, 84—ab
Itoh, M., *et al.*, 92—ab

Jackson, A. P., Jr. *See* Wasson, W. W., 679—ab
Jackson, C., *et al.*, 838—ab
Jackson, C. L., 341—ab
—— *See* Jackson, C., 838—ab
Jackson, E. B., and A. M. Brues. Studies on a transplantable embryoma of the mouse, 494, 510—ab
Jackson, E. B. *See* Brues, A. M., 557, 585—ab
Jackson, J. A., 435—ab
Jackson, Roscoe B., Memorial Laboratory, Staff, 593—ab
Jacobi, H. P., *et al.*, 82—ab
Jacobs, J. L., *et al.*, 674—ab
Jacobs, L. G., 591—ab

Jacobs, M. D. *See* Kirshbaum, J. D., 89—ab
Jacobson, S. A., 844—ab
Jacobson, V. C., 90—ab
Jacoby, F., 174—ab
Jacoby, P., *et al.,* 911—ab
Jaffe, H. L., *et al.,* 92—ab
Janes, R. M., 838—ab
Janeway, C. A. *See* Cheever, F. S., 23, 84—ab
Jankelson, I. R., *et al.,* 513—ab
Jansen, E. F. *See* Balls, A. K., 170—ab
Japanese Foundation for Cancer Research, Proceedings of 32nd Meeting, 94—ab
Jaw, benign and malignant tumors. Spencer, F. R., *et al.,* 845—ab
—— upper, tumors. Waldron, C. W., 436—ab
—— carcinoma treatment. Johnson, G. S., 844—ab
Jejunum, adenocarcinoma, primary. Cornell, N. W., *et al.,* 841—ab
—— —— —— Hunt, E. L., *et al.,* 513—ab
—— —— surgical treatment. Gainey, J. J., *et al.,* 91—ab
—— carcinoma. Geymann, M. J., 513—ab
—— intussusception due to carcinoid tumor. Mufson, S., *et al.,* 514—ab
Jellen, J. *See* Goin, L. S., 676—ab
Jelsma, F., 769—ab
Jenney, F. S. Reticulum cell sarcoma of the rat transferred through twelve successive passages in animals of related stock, 407, 432—ab
Jenrette, W. V. *See* Greenstein, J. P., 430—2 ab, 673—ab, 732*, 908—ab, 978—ab
—— *See* Hollaender, A., 977—ab
Jensen, J. P., 846—ab
Jensen rat sarcoma, composition and amphoteric properties of nucleoprotein fraction. Greenstein, J. P., *et al.,* 430—ab
—— —— —— differentiation. Rozynek, M., 675—ab
Jessico, C. H. *See* Walker, A. E., 679—ab
Jessup, D. S. D., 680—ab
—— *See* Eggers, C., 338—ab
Jobling, J. W. *See* Shemin, D., 252—ab, 729*
Johns, F. S., 435—ab
Johnson, G. S., 680—ab, 844—ab
Johnson, J. M., 83—ab
—— *See* Maver, M. E., 673—ab, 751*, 910—ab
Johnson, M. J. *See* Berger, J., 585—ab
Johnston, R. A., 88—ab
Jolley, J. F. *See* Neal, M. P., 683—ab
Jones, A. J., *et al.,* 587—ab
Jones, E. E. The effect of testosterone propionate on mammary tumors in mice of the C3H strain, 787, 825—ab
Jones, F. H., 681—ab
Jones, H. B., *et al.,* 428—2 ab
Jones, H. C. *See* Doub, H. P., 513—ab
Jones, R. N., 580—ab
—— *See* Creech, H. J., 329—ab, 668—2 ab
—— *See* Talbot, N. B., 336—ab
Jones, T. E., 176—ab
Joyce, L. *See* Loofbourow, J. R., 908—ab
Jurow, H. N., 913—ab

Kabat, E. A., *et al.,* 673—ab
—— *See* Burk, D., 732*
—— *See* Furth, J., 431—ab
Kahler, H. *See* Shear, M. J., 741*
Kamperman, G., 338—ab
Kaneb, G. D. *See* Hunt, E. L., 513—ab
Kangri-burn cancer. Neve, E. F., 912—ab
Kanter, A. E., *et al.,* 914—ab
Kanzer, M. G. *See* Bender, M. B., 769—ab
Kaplan, I. I., 85—ab, 91—ab, 676—2 ab
Kaplan, P. *See* Gault, J. T., 841—ab
Karnofsky, D. *See* Aub, J. C., 737*
Kashikura, K., 914—ab
Kasiwabara, N. *See* Morigami, S., 83—ab, 830—ab
Kato, K. *See* Wentz, V. B., 842—ab
Kauer, J. T., *et al.,* 848—ab
Kauzmann, W. J. *See* Bernstein, S., 505—ab
Kawanago, S., 89—ab
Kazancigil, T. R., *et al.,* 434—ab
Keegan, J. J., *et al.,* 92—ab
Keen, M. R., *et al.,* 340—ab
Kekwick, R. A., 92—ab
Kelley, C. H., 343—ab
Kelly, L. M. C., 844—ab
Kennard, H. E., 436—ab
Kennaway, E. L. A further note on the current literature of research, 667
—— Notes on the current literature of cancer research, 164, 175—ab
—— *See* Badger, G. M., 166—ab
—— *See* Cook, J. W., 75—ab, 167—ab
Kennaway, N. M. *See* Badger, G. M., 166—ab
—— *See* Cook, J. W., 167—ab
Kenney, J. M., 335—ab
—— *See* Abels, J. C., 771, 845—ab
Kensler, C. J., *et al.,* 585—ab
—— *See* Sugiura, K., 745*
Kenwell, H. N., *et al.,* 840—ab
Keratosis, senile, and epithelioma, in Negro. Spencer, G. A., 912—ab
Kernohan, J. W. *See* Moersch, F. P., 87—ab, 770—ab
Kerr, J. G., 514—ab
Ketosteroids, in urine, colorimetric assay. Fraser, R. W., *et al.,* 509—ab
—— urinary, extraction and spectrochemical assay. Talbot, N. B., *et al.,* 336—ab
Kickham, C. J. E., 340—ab
Kidd, J. G. The enduring partnership of a neoplastic virus with tumor cells: experiments with the V2 rabbit carcinoma, 730*
—— *See* Friedewald, W. F., 674—ab, 827—ab
Kidney, adult, treatment of malignant tumors. O'Conor, V. J., 176—ab
—— benign and malignant hypernephroid tumors. Kozoll, D. D., *et al.,* 90—ab
—— carcinoma, glomerulus-like neoplastic structures. Bosse, M. D., 90—ab
—— —— papillary. Stirling, W. C., *et al.,* 915—ab
—— horseshoe, papillary carcinoma. Fitzgerald, J. S., 684—ab
—— inhibitory effect of feeding on experimental liver cancer. Mori, K., 830—ab
—— liposarcoma. Froug, C., 684—ab
—— malignant tumor, in children. Nystrom, G., 340—ab
—— neoplasms, differential diagnosis. Abeshouse, B. S., 675—ab
—— —— malignant, in children. Higgins, C. C., *et al.,* 837—ab
—— papillary cystadenoma. Heckel, N. J., *et al.,* 90—ab
—— —— —— malignant. Hayward, W. G., 90—ab
—— pelvis, benign papilloma. Senger, F. L., *et al.,* 837—ab
—— polycystic, fibrosarcoma with extension into vena cava. Henline, R. B., 340—ab
—— —— with hypernephroma. Melicow, M. M., *et al.,* 93—ab
—— rabbit, tumor. Miyadi, T., 85—ab
—— tumor, spontaneous regression. Davidson, B., 340—ab
—— tumors, exploration. Bugbee, H. G., 836—ab
—— —— analysis of 118 cases. Smith, E., *et al.,* 837—ab
—— —— malignant, at Rochester General Hospital during 12-years. Gaspar, I. A., 836—ab
—— lymphosarcoma and lymphosarcomatosis. Puente Duany, N., 684—ab
Kilfoy, E. J., 89—ab
King, B. B., 92—ab
Kinney, L. C., 844—ab
Kirby, A. H. M. *See* Chalmers, J. G., 167—ab
Kirby, D. B., 680—ab
Kirby-Smith, J. S., and H. G. Grady. Studies of tumors of the skin of mice produced by ultraviolet radiation, 742*
—— *See* Grady, H. G., 736*
Kirklin, B. R. *See* Olds, J. W., 91—ab
Kirschbaum, A., 85—ab, 255—ab
—— **and L. C. Strong.** Transplantation of leukemia arising in hybrid mice, 785, 827—ab

Kirshbaum, J. D., *et al.,* 89—ab
—— *See* Kozoll, D. D., 90—ab
—— *See* Mass, M., 91—ab
Kishi, S., *et al.,* 83—ab
Klawans, A. H. *See* Kanter, A. E., 914—ab
Klein, A. J., *et al.,* 76—ab, 515—ab
Kleinberg, S., 844—ab
Kleinenberg, H. E., *et al.,* 76—ab
—— **S. A. Neufach, and L. M. Schabad.** Further study of blastomogenic substances in the human body, 853, 905—ab
Klemme, R. M. *See* Woolsey, R. D., 913—ab
Klenitzky, J. S., 422—ab
Kletzien, S. W. The influence of sex on iron assimilation in the rat, 736*
Klinck, G. H., Jr. *See* Wright, A. W., 583—ab
Kline, B. E. *See* Rusch, H. P., 334—ab, 465, 509—ab, 749*
Kling, D. H. *See* Hutchinson, C. W., 177—ab
Knee, sinovial tumor, giant cell. Herzmark, M. H., 844—ab
Koch, F. S. *See* Steele, R., 614, 670—ab, 750*
Koehler, A. E. *See* Burtness, H. I., 848—ab
Koerth, C. J. *See* McCorkle, R. G., 90—ab
Kögl, tumor theory. Bayerle, H., 584—ab
Kohman, T. P., *et al.,* 767—ab
Korb, M. *See* McDonald, C. A., 769—ab
Körbler, J., 591—ab
Kornblum, K., *et al.,* 343—ab
Korteweg, R. *See* van Gulik, P. J., 253—ab
Kozoll, D. D., *et al.,* 90—ab
—— *See* Schiller, W., 257—ab
Kraemer, M. *See* Schaaf, R., 93—ab
Krahl, M. E. *See* Davis, W. W., 167—ab
Krantz, J. C., Jr. *See* Beck, F. F., 188, 251—ab
Krieg, E. G., 436—ab
Krock, F., 340—ab
Kubota, K. *See* Hanafusa, S., 90—ab
Kulvin, M. M., 683—ab
Kurosu, F. *See* Oda, T., 88—ab
Kurzrok, R. *See* Perloff, W. H., 425—ab
Kushner, J. I. *See* Fleischer, A. J., 835—ab
Kuttelwascher, H. *See* Oswald, W., 586—ab
Kvle, B. H., 845—ab

Lacrimal sac, carcinoma, report of 2nd case. Spratt, C. N., 834—ab
Lacroix, L., 591—ab
Lactation, testosterone, inhibition. Fleischer, A. J., *et al.,* 835—ab
Ladewig, P., *See* Kazancigil, T. R., 434—ab
Lahey, F. H., *et al.,* 838—ab
Laird, D. R. *See* Broders, A. C., 91—ab
Laird, E. G., 916—ab
Laird, T. K., 841—ab
Lamb, J. H., *et al.,* 93—ab, 912—ab
Lamson, O. F., 91—ab
Landsman, A. A., 590—ab
Lansing, W. *See* Burack, E., 227, 251—ab
—— *See* Wolfe, J. M., 426—ab
Laqueur, W. *See* Kazancigil, T. R., 434—ab
Larionow, L. Th. On the mechanism of action of carcinogenic substances, 860, 906—ab
Larson, C. P., 591—ab
Laryngoscopy, suspension, in treatment of malignant disease of hypopharynx and larynx. New, G. B., *et al.,* 839—ab
Larynx, cancer. Cutler, M., 86—ab
—— —— incidence. Jackson, C., *et al.,* 838—ab
—— —— treatment. Foster, J. H., 837—ab
—— —— —— Jackson, C. L., 341—ab
—— —— 250 operative cases. Clerf, L. H., 837—ab
—— carcinoma, diagnosis and surgical treatment. Looper, E. A., 838—ab
—— —— diagnosis and treatment. Gatewood, E. T., 838—ab
—— —— radiation therapy. Salinger, S., 678—ab
—— hypopharynx, nasopharynx, and sinuses, results of treatment of malignant tumors. Woodward, F. D., *et al.,* 839—ab
Lascano, E. *See* Brachetto-Brian, D., 341—ab
Lasnitzki, A., and A. K. Brewer. The isotopic constitution of potassium in animal tumors and muscle from tumor-bearing animals, 776, 829—ab
Lasnitzki, I., 172—ab
Laszlo, D. *See* Lewisohn, R., 83—ab, 324, 335—ab, 336—ab, 799, 829—ab
Latent period tumor production, factors affecting, production of cancer by new chemical compounds. Bradbury, J. T., W. E. Bachmann, and M. G. Lewisohn, 685, 766—ab
Lavik, P. S., and C. A. Baumann. Dietary fat and tumor formation, 181, 254—ab
—— *See* Baumann, C. A., 508—ab
Law, L. W. The cancer producing properties of azo compounds in mice, 397, 422—ab
—— The induction of leukemia in mice following percutaneous application of 9,10-dimethyl-1,2-benzanthracene, 564, 580—ab
—— 330—2 ab, 669—ab
—— **and M. Lewisohn.** Comparative carcinogenicity of cholanthrene derivatives, 695, 766—ab
—— *See* Snell, G. D., 332—ab
—— *See* Woolley, G. W., 955, 977—ab
Lawrence, H. R., 256—ab
Lawrence, J. H. *See* Erf, L. A., 767—ab
—— *See* Jones, H. B., 428—2 ab
—— *See* Stone, R. S., 678—ab
Lawson, W. *See* Dodds, E. C., 905—ab
Lea, D. E., 170—ab
Lecannelier, S. *See* Lipschütz, A., 425—ab
Leddy, E. T., *et al.,* 90—ab
Lederer, M. *See* Hyman, M. A., 436—ab
—— *See* Louria, M., 90—ab
Lee, L. E., Jr., 175—ab
Lehman, E. P., 980—ab
Leichner, W., *et al.,* 436—ab
Leiomyoma, lung. Brahdy, L., 839—ab
—— stomach, perforation. Mass, M., *et al.,* 91—ab
—— pleura. Stryker, W. A., 91—ab
Leiomyosarcoma, esophagus. French, L. R., *et al.,* 176—ab
Leiter, J. *See* Shear, M. J., 423—ab
—— *See* Shimkin, M. B., 250—ab
Lefèvre, H. *See* Engelbreth-Holm, J., 102, 168—ab
Lemos Ibañez, A., 511—ab
—— *See* Molinari, J. L., 178—ab
Lentino, A. *See* Ferrari, R. C., 176—ab
Lenz, M., 338—ab
Lenzi, M., 828—ab
Leuchtenberger, C. *See* Lewisohn, R., 324, 335—ab, 336—ab, 752*, 799, 829—ab
Leuchtenberger, R., *et al.,* 423—ab
—— *See* Lewisohn, R., 83—ab, 324, 335—ab, 336—ab, 752*, 799, 829—ab
Leucutia, T., 86—ab, 436—ab, 915—ab
Leukemia, acute, and achrestic anemia in brother and sister. Bichel, J., 846—ab
—— causation, role of heredity and extrinsic factors. Furth, J., and R. K. Cole, 739*
—— human, culture of bone marrow cells. Israëls, M. C. G., 178—ab
—— lymphatic, and lymphosarcoma, induced in rat, transmission. Murphy, Jas. B., and E. Sturm, 379, 431—ab
—— lymphatic, transplantable in rats, induced resistance. Sturm, E., 627, 675—ab
—— lymphoid, phosphorus exchange in tissues of patients. Erf, L. A., *et al.,* 767—ab
—— mice, genetics. Cole, R. K., and J. Furth, 957, 977—ab
—— —— hybrid, transplantation. Kirschbaum, A., and L. C. Strong, 785, 827—ab
—— —— induction, following percutaneous application of benzanthracene. Law, L. W., 564, 580—ab
—— —— influence of methylcholanthrene on age incidence. Kirschbaum, A., *et al.,* 255—ab
—— myeloblastic, with tumor formation. de Oliveira-Campos, J., 258—ab
—— myelogenous, acute. Walsh, J. C., *et al.,* 916—ab

—— myeloreticulosis, transition to reticulum cell sarcoma. Benecke, E., 846—ab
—— postirradiation changes in organic phosphorus. Abels, J. C., J. M. Kenney, L. Craver, L. D. Marinelli, and C. P. Rhoads, 771, 845—ab
—— production in rats. Ito, S., 84—ab
—— radiation. Sprong, A. A., 916—ab
—— relation to pregnancy. Burchenal, J. H., 84—ab
—— specific substances in urine. Miller, F. R., *et al.*, 436—ab
—— spontaneous, and tumors in mice, effect of nursing. Barnes, W. A., and R. K. Cole, 99, 171—ab
—— treatment with radioactive phosphorus. Lawrence, H. R., 256—ab
—— —— —— —— —— Warren, S., 730*
—— tumor-problem. Cramer, H., 436—ab
Leukemias, acute. Powell, W. N., 847—ab
—— and mammary carcinoma, acceleration by benzanthracene in mice. Engelbreth-Holm, J., and H. Lefèvre, 102, 168—ab
—— mice, induced and spontaneous, differences between malignant blood cells. Furth, J., and W. A. Barnes, 17, 84—ab
—— x-ray treatment. Rubenfeld, S., *et al.*, 678—ab
Leukemic cells, effects of irradiation, in marrow cultures. Osgood, E. E., 428—ab
Leukemoid reaction in carcinomatous skeletal and splenic metastases. Lisa, J. R., *et al.*, 434—ab
Leukocytosis, promoting factor in exudates. Menkin, V., 431—ab
Leukoses, and chicken tumors, metabolism. Burk, D., H. Sprince, E. A. Kabat, and J. Furth, 732*
—— spontaneous, in mice, effects of some carcinogenic agents. Morton, J. J., and G. B. Mider, 95, 168—ab
Leukosis, fowl, cultivation of agent in vitro. Doljanski, L., *et al.*, 174—ab
—— —— cultures of blood cells, bone marrow, and myocardium. Doljanski, L., and M. Pikovski, 205, 255—ab
—— —— inactivation of agent by x-rays. Doljanski, L., *et al.*, 508—ab
—— —— transfer with fractions obtained by ultracentrifugation of plasma and bone marrow extracts. Kirschbaum, A., *et al.*, 85—ab
Levi, A. A., 682—ab
—— *See* Boyland, E., 505—ab
Levin, E. A. *See* Torrey, F. A., 589—ab
Levine, M., *et al.*, 76—ab
Levinson, L. J., *et al.*, 909—ab
Levy, J. H., *et. al.*, 437—ab
Lewis, A. A., and C. W. Turner. The effect of estrogens and a carcinogenic chemical in stimulating the secretion of the mammogenic duct growth factor of the anterior pituitary, 55, 78—ab
Lewis, M. R., 84—ab
—— *See* Lewis, W. H., 749*
Lewis, R. W., 93—ab
Lewis, W. H., 336—2 ab
—— **and M. R. Lewis.** Cell division, 749*
Lewisohn, M. G. *See* Bradbury, J. T., 685, 766—ab
—— *See* Law, L. W., 330—ab, 695, 766—ab
Lewisohn, R., *et al.*, 83—ab, 336—ab
—— **C. Leuchtenberger, R. Leuchtenberger, and K. Bloch.** Further observations on the effect of yeast extract on spontaneous breast adenocarcinomas of mice, 752*
—— —— —— **and D. Laszlo.** The fate of spontaneous mammary carcinomas in mice after simple biopsy, 324, 335—ab
—— —— —— —— **and K. Bloch.** Action of yeast extract on transplanted and spontaneous malignant tumors in mice, 799, 829—ab
Liber, A. F., *et al.*, 87—ab
Lichtenstein, B. W., 917—ab
Lichtenstein, L. *See* Jaffe, H. L., 92—ab
Lieber, M. M. *See* Stewart, H. L., 90—ab
Liebow, A. A., *et al.*, 585—ab, 682—ab
—— *See* Tennant, R., 83—ab, 254—ab
Light. *See also* Radiation
Liljencrantz, E., *et al.*, 676—ab
Linitis plastica, gastrectomy. Jackson, J. A., 435—ab
Link, G. K. K., and V. Eggers. Hyperauxiny in crown gall, 741*
Lip and mouth, treatment of cancer. Pfahler, G. E., 677—ab
—— cancer and precancerous lesions. Simpson, F. E., 912—ab
—— carcinoma, treatment. Johnson, G. S., 680—ab
—— lower, cancer. Lamb, J. H., *et al.*, 912—ab
—— —— eradication of epithelioma, plastic repair. Federspiel, M. N., 912—ab
Lipid metabolism in bird, endocrine control. Entenman, C., *et al.*, 585—ab
Lipids, vehicles for carcinogens in induction of tumors in rats. Davenport, H. A., J. L. Savage, M. J. Dirstine, and F. B. Queen, 821, 825—ab
Lipmann, F. *See* Behrens, O. K., 335—ab
Lipoma, colon. Barnes, F. L., *et al.*, 512—ab
—— colon, submucous. Gault, J. T., *et al.*, 841—ab
—— thoracic. McCorkle, R. G., *et al.*, 90—ab
—— tongue. Halpert, B., 838—ab
—— uterus. Hall, D. P., 88—ab
Liposarcoma, kidney. Froug, C., 684—ab
—— retroperitoneal, with myxomatous degeneration. Flynn, J. M., 437—ab
Lippincott, S. W., *et al.*, 978—ab
—— *See* Morris, H. P., 753*, 978—ab
Lipschütz, A., *et al.*, 425—4 ab, 506—ab, 582—2 ab, 832—ab
—— **and L. Vargas, Jr.** Structure and origin of uterine and extragenital fibroids induced experimentally in the guinea pig by prolonged administration of estrogens, 236, 332—ab
—— —— **and J. Palma.** Sex difference in the conjunctive tumoral reaction of the guinea pig toward natural and artificial estrogens, 575, 582—ab
Lisa, J. R., *et al.*, 434—ab, 437—ab
—— *See* Liber, A. F., 87—ab
Lischer, C. E. *See* Paletta, F. X., 942, 975—ab
Literature, current, of cancer research. Kennaway, E. L., 164, 175—ab, 667
Lithium-containing dye, localization in certain tumors of mice after intravenous injection. Zahl, P. A., 338—ab
Littig, L. V., 911—ab
Little, C. C. Some factors which influence the genetic mechanism of cancer formation in mice, 742*
—— 907—ab
—— *See* Woolley, G. W., 170—ab, 252—ab, 955, 977—ab
Liver and pineal gland, effects of products on growth of tumors in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.*, 331—ab
—— and spleen, tumors induced by carcinogenic hydrocarbons. Shear, M. J., *et al.*, 423—ab
—— Bantu, extracts in production of skin tumors in mice. Des Ligneris, M. J. A., 75—ab
—— binucleated and multinucleated cells in normal human (Bantu) tissue. Gillman, J., 177—ab
—— cancer, dimethylaminoazobenzene, partial protection of rats by riboflavin with casein. Kensler, C. J., *et al.*, 585—ab
—— —— experimental, and its inhibition by various food substances. Sugiura, K., and C. J. Kensler, 745*
—— —— —— in rats, inhibition by rice-bran extract, yeast, and yeast extract. Sugiura, K., and C. P. Rhoads, 3, 83—ab
—— —— —— inhibition by animal tissue feeding, especially kidney. Mori, K., 830—ab
—— —— —— production, effect of cystine feeding. Mori, K., 830—ab
—— —— inhibition of experimental production by millet feeding. Morigami, S., *et al.*, 830—ab
—— —— production, effect of liver feeding by o-aminoazotoluol. Mori, K., 830—ab
—— —— rat, butter yellow, metabolism. Burk, D., O. K. Behrens, and K. Sugiura, 733*
—— carcinoma, experimental influence of diet. Ando, T., 81—ab, 429—ab, 584—ab
—— —— in child, disturbances of osseous and lipid metabolism. Hansen, A. E., *et al.*, 842—ab
—— —— primary. Gnassi, A. M., 842—ab
—— —— primary, in Bantu races. Berman, C., 176—ab
—— —— —— in Bantu races clinical. Berman, C., 177—ab
—— —— —— pathology, in Bantu races of South Africa. Berman, C., 915—ab

—— —— —— with Banti's syndrome. Wentz, V. B., *et al.*, 842—ab
—— cells, from animals injected with methylcholanthrene, production of tumors by transplantation. Selle, W. A., P. Brindley, and J. W. Spies, 618, 669—ab, 737*
—— effect of carcinogens on vitamin A. Baumann, C. A., *et al.*, 508—ab
—— —— feeding on production of cancer by o-aminoazotoluol. Mori, K., 830—ab
—— human, extract, production of tumors. Steiner, P. E., 750*
—— necrosis in rabbits, hyperthyroidism and Shope papilloma. Sealy, W. C., 584—ab
—— normal, nucleoprotein fraction. Greenstein, J. P., 82—ab
—— primary malignant tumors among natives of Portuguese Mozambique. Prates, M., 177—ab
—— tissue, normal and cancerous, rat, relative activity of xanthine dehydrogenase, catalase, and amylase. Greenstein, J. P., *et al.*, 978—ab
—— tumor formation and diet. Miller, J. A., D. L. Miner, H. P. Rusch, and C. A. Baumann, 699, 768—ab
—— tumors, morphology, in rats fed butter yellow. Edwards, J. E., and J. White, 746*
—— —— rats, action of aminoazotoluene, and behavior in vitro. Emmart, E. W., 250—ab
—— water content, effect of carcinosarcoma 256. McEwen, H. D., and F. L. Haven, 148, 173—ab
Livers, mice, effects of azonaphthalenes and related compounds. Cook, J. W., *et al.*, 167—ab
Livingston, S. K., 90—ab, 835—ab
Lloyd, T. P., *et al.*, 93—ab
Lobectomy, frontal, in treatment of brain tumors. Stookey, B., *et al.*, 433—ab
Loeb, L., 256—ab
—— **and V. Suntzeff.** The effects of estrogen on the mammary gland of mice injected during pregnancy, lactation, and retrogression, 439, 507—ab
—— *See* Suntzeff, V., 446, 507—ab
Loeb, M. J., 847—ab
Loewenberg, S. A., *et al.*, 841—ab
Loftis, E. L., 87—ab
Long, M. L. *See* Bischoff, F., 217, 254—ab
Loofbourow, J. R., *et al.*, 908—ab
Looper, E. A., 838—ab
Loosi, C. F., and P. E. Steiner. Production of lung tumors in strain A mice, 753*
Lorber, H., *et al.*, 681—ab
Lorenz, E., *et al.*, 77—ab, 250—ab, 423—ab
—— **and H. L. Stewart.** Adenocarcinoma of the small intestine and other lesions in mice of different strains receiving oral administration of 20-methylcholanthrene and 1,2,5,6-dibenzanthracene, 743*
Lorenz, F. W. *See* Entenman, C., 585—ab
Louria, M., *et al.*, 90—ab
Love, G. J. *See* Moersch, F. P., 87—ab
Love, J. *See* Hancock, J. D., 676—ab
Lovelace, W. R. *See* Mayo, C. W., 514—ab
Lubash, S. *See* Dreyfuss, M. L., 89—ab
Luce-Clausen, E. M. *See* Morton, J. J., 81—ab
Lucheta, B. *See* Roffo, A. H., 669—ab
Lucké, B., 80—ab, 255—2 ab
—— **A. K. Parpart, and R. A. Ricca.** Failure of choleic acids of carcinogenic hydrocarbons to alter permeability of marine eggs and of mammalian erythrocytes, 709, 766—ab
Lulenski, C. R. *See* Warren, S., 912—ab
Lull, C. B., 340—ab
Lung, alveolar cell tumor, primary. Neuberger, K., 840—ab
—— bronchial carcinoma, bronchoscopic diagnosis. Holinger, P., *et al.*, 342—ab
—— —— tumors, polypoid. Goldman, A., *et al.*, 342—ab
—— carcinoma, bronchiogenic, rapid growth. Eveleth, M. S., and N. C. Wetzel, 721, 840—ab
—— —— —— differentiation. Gebauer, P. W., 840—ab
—— —— —— x-ray therapy. Leddy, E. T., 90—ab
—— cancer, alveolitis. Schlossberg, R., 344—ab
—— —— broncho-pulmonary changes. Mosto, D., 343—ab
—— —— latent, bone metastases. Castex, M. R., *et al.*, 341—ab
—— —— metaplasia of bronchial epithelium. Polak, M., 344—ab
—— —— primary, anatomical ground. Brachetto-Brian, D., *et al.*, 341—ab
—— —— primary, anatomical ground. Elizalde, P. I., *et al.*, 342—ab
—— —— —— reticulum, collagen, and elastic fibers. Radice, J. C., 344—ab
—— carcinoma. Ochsner, A., *et al.*, 840—ab
—— —— and tuberculosis. Hamilton, C. E., *et al.*, 90—ab
—— —— bronchiogenic. Singer, J. J., 344—ab
—— —— cellular structure. Halpert, B., *et al.*, 434—ab
—— —— chronic irritation. Macklin, M. T., *et al.*, 90—ab
—— —— clinical study. Stein, J. J., 344—ab
—— —— incidence. Halpert, B., 900, 915—ab
—— —— morphology. Halpert, B., 342—ab
—— —— 195 cases, needle puncture biopsy. Tripoli, C. J., *et al.*, 91—ab
—— —— primary. Kelley, C. H., 343—ab
—— —— —— Ochsner, A., *et al.*, 343—ab
—— —— —— Olds, J. W., *et al.*, 91—ab
—— —— —— diagnosis, clinical. Diamond, S., 840—ab
—— —— —— hemothorax. Cabitt, H. L., 839—ab
—— —— —— importance of early diagnosis. Samson, P. C., *et al.*, 841—ab
—— —— —— surgical considerations. Ochsner, A., *et al.*, 344—ab
—— —— —— spontaneous, in mice, occurrence and pathology. Wells, H. G., M. Slye, and H. F. Holmes, 259, 337—ab, 752*
—— cysts. Greaves, F. C., 342—ab
—— deleterious effects of deep x-ray. Jacobson, V. C., 90—ab
—— leiomyoma. Brahdy, L., 839—ab
—— origin of tumors occurring in apex. Hall, W. C., 90—ab
—— resection. Churchill, E. D., 341—ab
—— tumors, and bile acids, in mice. Law, L. W., 669—ab
—— —— and heredity, susceptibility of 4 inbred strains of mice and their hybrids to pulmonary tumors induced by subcutaneous injection. Heston, W. E., 80—ab
—— —— and known genes in mice, relations. Heston, W. E., 740*
—— —— diagnosis, aspiration biopsy and sputum examination. Craver, L. F., 342—ab
—— —— in mice, induced, chronic irritation. Shimkin, M. B., *et al.*, 250—ab
—— —— —— induced by injection of dibenzanthracene into amniotic fluid. Law, L. W., 330—ab
—— —— —— primary, and influenza virus. Campbell, J. A., 170—ab
—— —— incidence in five related strains of mice and their hybrid derivatives. Slye, M., 740*
—— —— method of inheritance. Lynch, C. J., 740*
—— —— primary, in mice, effects of precipitated silica and of iron oxide on incidence. Campbell, J. A., 328—ab
—— —— —— malignant, rare forms. Casilli, A. R., *et al.*, 90—ab
—— —— production in strain A mice. Loosi, C. F., and P. E. Steiner, 753*
—— x-ray, deep, deleterious effects. Jacobson, V. C., 90—ab
Lungs, endometriosis. Hobbs, J. E., *et al.*, 174—ab
—— lymphangitic carcinomatosis. Schattenberg, H. J., *et al.*, 841—ab
—— lymphomatoid lesions. Craver, L. F., *et al.*, 846—ab
—— neurofibromatosis with sarcomas. Louria, M., *et al.*, 90—ab
—— tumors, primary, x-ray diagnosis and therapy. Farberov, B. E., *et al.*, 840—ab
Lupus sarcoma. Becker, A., 680—ab
Luteinization, pronounced follicular, simulating tumor. Arenas, N., *et al.*, 339—ab
Lymph nodes and spleen in mice used for carcinogenic experiments, cellular changes. Parsons, L. D., *et al.*, 909—ab

—— endocrine and salivary glands, experimental tumors. Franseen, C. C., J. C. Aub, and C. L. Simpson, 489, 505—ab
—— involvement, epidermoid carcinoma of extremities. Taylor, G. W., *et al.*, 433—ab
—— reticulum cell sarcoma. Warren, S., *et al.*, 847—ab
Lymph vessel, and blood tumors. Watson, W. L., *et al.*, 93—ab
Lymphadenopathy, giant follicular. Combes, F. C., *et al.*, 916—ab
—— giant follicular, and polymorphous cell sarcoma (Symmers' disease), radiation treatment. Rubenfeld, S., 86—ab
Lymphoblastoma, follicular. Baggenstoss, A. H., *et al.*, 93—ab
Lymphoepithelioma, parotid gland. Fein, M. J., 916—ab
Lymphogranulomatosis, Hodgkin's disease, nervous system. Winkelman, N. W., *et al.*, 847—ab
Lymphoid tissue, effect of carcinogenic and noncarcinogenic hydrocarbons. Hoch-Ligeti, C., 484, 506—ab
Lymphoid tumor of chicken, transmissible. Olson, C., Jr., 413, 432—ab
Lymphoma, conjunctival. Jensen, J. P., 846—ab
—— malignant, follicular, 63 cases. Gall, E. A., *et al.*, 846—ab
—— mice, effects of injections of nuclei on implants. Marshak, A., *et al.*, 672—ab
Lymphomatoid lesions, lungs. Craver, L. F., *et al.*, 846—ab
Lymphomatosis, increase in male fowls by castration. Marine, D., *et al.*, 78—ab
—— induction in mice by benzanthracene. Law, L. W., *et al.*, 330—ab
Lymphosarcoma. Sugarbaker, E. D., *et al.*, 93—ab
—— and lymphatic leukemia, induced in rat, transmission. Murphy, Jas. B., and E. Sturm, 379, 431—ab
—— and lymphosarcomatosis of the kidneys. Puente Duany, N., 684—ab
—— and primary malignant tumors of spleen. Bonney, C. W., 178—ab
—— diagnosed gastroscopically. Giere, C. N., 916—ab
—— epidural space. Drake, R. L., 913—ab
—— ileocaecal valve. Schaaf, R., *et al.*, 93—ab
—— lipoid storage cells. Tannhauser, S., 847—ab
—— primary, small intestine. Benjamin, E. L., *et al.*, 91—ab
—— —— tonsil. Cosco, N. P., *et al.*, 846—ab
—— reticulum cell, rats. Nelson, A. A., *et al.*, 846—ab
—— 3 apparently cured cases. Pund, E. R., *et al.*, 847—ab
—— tonsil. Davis, E. D. D., 915—ab
—— transplantable, chicken. Pentimalli, F., 69, 85—ab
—— —— mesenteric lymph nodes of rats. Curtis, M. R., 674—ab
Lynch, C. J. On the method of inheritance of susceptibility to lung tumors, 740*

McCarter, J. C. *See* Foster, M. A., 917—ab
McCarthy, E. *See* Brown, S. J., 848—ab
McCarthy, W. D. *See* Watson, W. L., 93—ab
MacCarty, W. C., Sr. Early cancer of the stomach. A study of 1,299 resected ulcers and 2,408 cancers, 536, 590—ab, 730*
McClure, C. W. *See* Jankelson, I. R., 513—ab
McComb, R. A. *See* Pearse, R., 837—ab
McCorkle, R. G., *et al.*, 90—ab
McCravey, A., 588—ab
McDonald, C. A., *et al.*, 769—ab
McDonald, J. R., *et al.*, 340—ab, 837—ab
—— *See* Thompson, G. J., 90—ab
—— *See* Woodruff, R., 92—ab
McDowell, A. J., 94—ab
McEleney, W. J. *See* Andervont, H. B., 907—ab, 977—2 ab
McEuen, C. S. *See* Noble, R. L., 332—ab
McEwen, H. D., and F. L. Haven. The effect of carcinosarcoma 256 on the water content of the liver, 148, 173—ab
McFarland, W. J. *See* Liebow, A. A., 585—ab
MacFarlane, C., *et al.*, 258—ab
MacFarlane, J. A., 590—ab
MacFee, W. F., 682—ab
McJunkin, F. A. *See* Ferguson, R. L., 78—ab
McKee, S. H., 589—ab
MacLachlan, E. A. *See* Talbot, N. B., 336—ab
McLaughlin, C. W., Jr., *et al.*, 841—ab
MacNab, D. S. *See* Pilcher, F., 837—ab
McNally, W. J. *See* Boldrey, E., 842—ab
McNamara, F. P., *et al.*, 914—ab
McNealy, R. W. *See* River, L., 590—ab
McNeer, G., 590—ab
McQuarrie, I. *See* Hansen, A. E., 842—ab

Ma, W. C., *et al.*, 828—ab
—— *See* Hsu, Chien-Liang, 81—ab
Mackenzie, K., *et al.*, 508—ab
Macklin, C. C. *See* Macklin, M. T., 90—ab
Macklin, M. T., *et al.*, 90—ab, 258—ab, 832—ab
Macromolecular material, chick embryo, effect on tissue cultures of mouse fibroblasts. Tennant, R., *et al.*, 254—ab
Macronucleolus and nucleonuclear ratio, relation to histologic grading. Mendes Ferreira, A. E., 832—ab
Magnetic fields, biologic effects. Lenzi, M., 828—ab
Maher, P. P., *et al.*, 343—ab
Mahoney, E. B. *See* Morton, J. J., 81—ab
Makino, K. *See* Itoh, M., 92—ab
Malec, J. P. *See* Hidde, F. G., 88—ab
Malignant tumors in unselected autopsy material at Curacao. Hartz, P. H., 591—ab
—— —— multiple, primary. White J. W., 832—ab
Mallory, T. B., 91—ab, 514—5 ab, 681—ab, 683—ab, 840—ab, 844—ab, 847—ab, 979—3 ab
Mammary and uterine tumors, spontaneous, in rabbit. Burrows, H., 175—ab
—— cancer in mice, spontaneous, failure of thyrotropic pituitary hormone to prevent. Haagensen, C. D., *et al.*, 252—ab
—— carcinoma, in males, excretion of androgens and estrogens. Yolton, N., *et al.*, 339—ab
—— —— in mice, acceleration of development by methylcholanthrene. Engelbreth-Holm, J., 168—ab
—— —— —— oral administration of stilbestrol. Shimkin, M. B., *et al.*, 426—ab
—— discharge, significance in cases of papilloma of breast. Gray, H. K., *et al.*, 835—ab
Mammary gland. *See also* Breast
—— gland, anatomy, disposition for cancer. van Gulik, P. J., *et al.*, 253—ab
—— —— hyperplasia, in human being and mouse. Taylor, H. C., Jr., *et al.*, 337—ab
—— —— tumors, aspiration biopsy. Bengolea, A. J., *et al.*, 175—ab
—— —— growth in hypophysectomized mice. Gardner, W. U., 251—ab
—— growth, inhibition by large amounts of estrogens. Gardner, W. U., 251—ab
—— tumors in female rats, estrogen induced, regression following removal of stimulus. Noble, R. L., *et al.*, 332—ab
—— —— in rats, produced by estrone tablets. Noble, R. L., *et al.*, 332—ab
—— —— mice, effect of foster nursing on incidence. DeOme, K. B., 427—ab
—— —— spontaneous, Albany strain rats. Wright, A. W., *et al.*, 583—ab
Mann, L. S., *et al.*, 84—ab
Manzanilla, M. A., 258—ab
Marano, A., *et al.*, 343—ab
Marble, B. B. *See* Brues, A. M., 815, 825—ab
Marcovich, A. W. *See* Walker, A. E., 679—ab
Marine, D., *et al.*, 78—ab, 671—ab
Marinelli, L. D. *See* Abels, J. C., 771, 845—ab
Mark, J., *et al.*, 582—ab
Marks, J. H., 89—ab
Marquis, W. J., 93—ab
Marshak, A., 334—ab, 672—ab
Marten, M. E., *et al.*, 916—ab
Martin, C. L., 911—ab
Martin, H. E., *et al.*, 90—ab, 838—ab, 839—ab
Martin, R. H. *See* Cook, J. W., 75—ab
—— *See* Hewett, C. L., 76—ab
Martinez de Hoz, R. *See* Etcheverry, M. A., 176—ab

Maruyama, K., 848—ab
Masciottra, R. L., 176—2 ab, 257—ab
—— *See* Colillas, D., 257—ab
Masculinization of infantile female rat, after-effects. Bradbury, J. T., 251—ab
Mass, M., *et al.,* 91—ab
—— *See* Hubeny, M. J., 511—ab
Massachusetts General Hospital, case records. Mallory, T. B., 514—5 ab, 681—ab, 683—ab, 840—ab, 844—ab, 847—ab, 979—3 ab
Masson, J. C., *et al.,* 89—ab
Mastectomy, simple versus radical, in carcinoma of breast. Schoregge, C. W., 836—ab
Masten, M. G., 87—ab
Mastitis, chronic, treatment. Atkins, H. J. B., 175—ab
Mastoid, osteoma eburneum. Cinelli, A. A., 843—ab
Matera, R. H. *See* Marano, A., 343—ab
Mathers, R. G. Glutamic acid in tumor hydrolysates, 146, 173—ab
Matsushita, S. *See* Oda, T., 88—ab
Matthews, A. A., 835—ab
Mattick, W. L., 838—ab
Maver, M. E., *et al.,* 673—ab, 910—ab
—— **J. M. Johnson, and J. W. Thompson.** The *d*-peptidase activity of serum as a diagnostic test for cancer, 751*
Mawson, E. H. *See* Boyland, E., 505—2 ab
Maxillary sinus, osteoma. Rawlins, A. G., 845—ab
Mayneord, W. V., *et al.,* 676—ab
Mayo, C. W., 514—2 ab, 918—ab
—— *See* Bargen, J. A., 591—ab
Mayo Clinic, carcinoma of stomach, review of cases. Walters, W., 435—ab
Mazzei, E. S. *See* Castex, M. R., 341—ab
Mediastinum tumors. Holst, J., 343—ab
—— —— surgical treatment. Heuer, G. J., 342—ab
Medical College of Virginia, statistical analysis of cases of cancer of cervix of uterus. Hoge, R. H., 913—ab
Medlar, E. M. *See* Walsh, J. C., 916—ab
Medulla, role in production of arterial hypertension. Meyer, B. C., 770—ab
Meigs, J. V., 88—ab, 676—2 ab
Melanin-containing pseudoglobulin from malignant melanoma in mice. Greenstein, J. P., *et al.,* 430—ab
Melanoma, amelanotic, 432—ab
—— American Negro. Anderson, W. A. D., 680—ab
—— benign, ciliary body. Givner, I., 834—ab
—— choroid, benign and malignant. Albers, E. S., 833—ab
—— —— with abdominal metastases. Thompson, H. E., *et al.,* 913—ab
—— cutis. Peller, S., 538, 591—ab
—— fish, cell types compared with mammalian, in tissue culture. Grand, C. G., M. Gordon, and G. Cameron, 660, 675—ab
—— intestine, small, primary. Gordon, W. C., 434—ab
—— malignant, in bone marrow. Battle, J. D., Jr., *et al.,* 842—ab
—— —— mice, melanin-containing pseudoglobulin. Greenstein, J. P., *et al.,* 430—ab
—— —— of mouth. Baxter, H., 341—ab
—— —— 117 cases. de Cholonoky, T., 432—ab
—— —— orbit. Harbert, F., 437—ab
—— —— recurring after 14 years. Hersperger, W. G., *et al.,* 680—ab
—— —— uvea. Terry, T. L., 834—ab
—— —— uveal tract. McKee, S. H., 589—ab
—— nervous system, central. Moersch, F. P., *et al.,* 87—ab
—— subungual. Scannell, R. C., 912—ab
Melanomas, genetics, in fishes. Gordon, M., 656, 671—ab
—— malignant, 4 and 7 year cures. Brown, J. B., *et al.,* 86—ab
Melanotic tumors, primary, meninges; resemblance to meningiomas. Ray, B. S., *et al.,* 833—ab
Melicow, M. M., 89—ab, 93—ab
Melnick, P. J. *See* Halley, E. P., 835—ab
Melroy, M. B. *See* Spencer, R. R., 251—ab, 423—ab, 748*
Meltzer, S. *See* Thorlakson, P. H. T., 515—ab
Mendes Ferreira, A. E., 832—ab
Meninges, osteogenic sarcoma. Turner, O. A., *et al.,* 913—ab
Meningioma. Foot, N. C., 87—ab
—— choroid plexus. Woolsey, R. D., *et al.,* 913—ab
—— hystology and hyperostosis cranii. Bailey, C. T., 87—ab
—— lipoblastic. Haverfield, W. T., *et al.,* 913—ab
—— pulmonary metastasis. Jurow, H. N., 913—ab
Meningiomas, spinal. Bradford, F. K., 769—ab
Menke, J. F., 330—ab
Menkin, V. Cellular injury in relation to proliferative and neoplastic response, 548, 580—ab, 752*
—— 425—ab, 431—2 ab
Meredith, J. M., 770—ab, 913—ab
Mesodermal mixed tumors of body of uterus. Liebow, A. A., *et al.,* 682—ab
Mesonephroma, malignant, of ovary. Tuta, J. A., *et al.,* 682—ab
—— ovary. Kazancigil, T. R., 434—ab
Mesothelioma, pleura, growth rate. Bohrod, M. G., 176—ab
Metabolism of rat liver during carcinogenesis by butter yellow. Orr, J. W., *et al.,* 830—ab
—— osseous and lipid, disturbances in child with primary carcinoma of liver. Hansen, A. E., *et al.,* 842—ab
Metastases, pelvic bone, from carcinoma of breast, treated with x-ray. Littig, L. V., 911—ab
Metastasis, distant, cancer of upper respiratory and alimentary tracts. Braund, R. R., *et al.,* 839—ab
Metastatic cancer, symptoms and signs. Phillips, R. B., 910—ab
Methionine sulfoxide, influence on growth of spontaneous tumors in mouse. Hammett, F. S., 673—ab
Methyl salicylate and benzene, solvents for methylcholanthrene. Burdette, W. J., and L. C. Strong, 939, 975—ab
Methylcholanthrene, acceleration of mammary carcinomas in mice. Engelbreth-Holm, J., 109, 168—ab
—— and dibenzanthracene, adenocarcinoma of small intestine in mice by oral administration. Lorenz, E., and H. L. Stewart, 743*
—— brain tumors, experimental. Zimmerman, H. M., and H. Arnold, 919, 938—ab
—— carcinogenesis in mouse's skin by infrequent application. Cramer, W., and R. E. Stowell, 849, 905—ab
—— carcinogenic action influenced by heptaldehyde. Carruthers, C., 81—ab
—— —— activity in rats. Dunning, W. F., *et al.,* 168—ab
—— —— effect influenced by methyl salicylate and benzene as solvents. Burdette, W. J., and L. C. Strong, 939, 975—ab
—— effect of dietary cystine on reaction of dilute brown mice. White, J., *et al.,* 978—ab
—— —— on *Paramecium.* Spencer, R. R., and M. B. Melroy, 748*
—— —— *Paramecium.* Spencer, R. R., et al., 251—ab
—— epidermal carcinogenesis, cytological changes. Cowdry, E. V., *et al.,* 905—ab
—— genetic analysis of the induction of tumors. Strong, L. C., 572, 584—ab, 738*
—— —— —— induction of tumors of mammary gland. Strong, L. C., and W. L. Williams, 886, 907—ab
—— hyperplastic epidermis compared with benign. Paletta, F. X., E. V. Cowdry, and C. E. Lischer, 942, 975—ab
—— induction of squamous cell carcinoma in forestomach of mice after oral administration. Lorenz, E., *et al.,* 250—ab
—— —— of tumors. Shimkin, M. B., *et al.,* 669—ab
—— influence on age incidence of leukemia in mice. Kirschbaum, A., *et al.,* 255—ab
—— intestinal lesions in mice, after oral administration. Lorenz, E., *et al.,* 77—ab
—— local and constitutional effects in production of skin tumors in mouse. Mider, G. B., *et al.,* 77—ab
—— production of tumors by transplantation of liver cells from animals injected with. Selle, W. A., P. Brindley, and J. W. Spies, 618, 669—ab, 737*
—— reaction of dilute brown mice, effect of dietary organic sulfur. Mider, G. B., and J. White, 434*
—— synthesis. Bachmann, W. E., *et al.,* 505—ab
Meyer, B. C., 770—ab

Meyer, H. Willy. Results of surgery in cancer of the stomach, 736*
Meyer, K. A., *et al.,* 916—ab
Meyer, L. M. *See* Marten, M. E., 916—ab
Meyer, M. A. *See* Biskind, G. R., 847—ab
—— *See* Harris, F. I., 339—ab
Meyer, R., 832—ab, 914—ab
Mice, NH strain, note on origin. Strong, L. C., 80—ab
Middle ear, neoplasms involving. Rosenwasser, H., 834—ab
Mider, G. B., *et al.,* 77—ab
—— **and J. White.** The effect of availability of dietary organic sulfur on the reaction of dilute brown mice to methylcholanthrene, 734*
—— *See* Greenstein, J. P., 673—ab, 732*
—— *See* Morton, J. J., 95, 168—ab
—— *See* Shimkin, M. B., 669—ab, 751*
—— *See* White, J., 978—ab
Milk. *See also* Nursing
Milk factor concentration, effect on development of spontaneous tumors in hybrids of two high cancer strains of mice. Warner, S. G., 738*
—— influence, further studies on effect on production tumors of breast. Bittner, J. J., 738*
—— —— ingestion of C3H milk in production of mammary tumors in C3H mice of different ages. Andervont, H. B., *et al.,* 977—ab
—— —— preservation by freezing and drying. Bittner, J. J., 826—ab
Millan Gutierrez, J., 257—ab
Miller, A. J. *See* Frank, L. W., 914—ab
Miller, E. W. *See* Pybus, F. C., 171—2 ab
Miller, F. R., *et al.,* 436—ab
Miller, G. L., *et al.,* 583—ab
Miller, J. A., D. L. Miner, H. P. Rusch, and C. A. Baumann. Diet and hepatic tumor formation, 699, 768—ab
Miller, J. R., 683—ab
Millet, inhibitory effect of feeding on experimental liver cancer. Morigami, S., *et al.,* 830—ab
Millhouse, J. H. *See* Platt, O. R., 514—ab
Mills, C. A. *See* Fuller, R. H., 130, 171—ab
—— *See* Wallace, E. W., 743*
Miner, D. L. *See* Deutsch, H. F., 818, 825—ab
—— *See* Miller, J. A., 699, 768—ab
Mintz, N., *et al.,* 848—ab
Mitchell, H. E., 918—ab
Mitchell, J. S., 172—ab
Mitosis, adrenal cortex, guinea pig, effect of fresh and experimentally modified anterior hypophysis of cattle. Blumenthal, H. T., 424—ab
—— effect of x-rays on sea-urchin eggs and sperm. Yamashita, H., *et al.,* 81—ab
—— in specimens removed during day and night from carcinoma of large intestine. Dublin, W. B., *et al.,* 91—ab
Mitotic count, adrenal cortex of normal guinea pigs. Blumenthal, H. T., 424—ab
Miwa, M., *et al.,* 828—ab
—— *See* Yamashita, H., 81—ab
Miyabe, M. *See* Naito, K., 588—ab
Miyadi, T., 85—ab
Moene, I., 435—ab
Moersch, F. P., *et al.,* 87—ab, 770—ab
Moersch, H. J. *See* Leddy, E. T., 90—ab
Mohs, F. E. The transformation of rat mammary adenofibroma to fibroma by androgens, 151, 170—ab
—— **and M. F. Guyer.** Pre-excisional fixation of tissues in the treatment of cancer in rats, 49, 81—ab
—— *See* Schmidt, E. R., 432—ab
Molinari, J. L., *et al.,* 178—ab
Monkey, carcinoma of prostate. Engle, E. T., *et al.,* 85—ab
Mooney, B. R., 677—ab
Moore, M. T. *See* Winkelman, N. W., 847—ab
Moore, S., 343—ab
Morais, E., 258—ab
Moran, T. J., *et al.,* 917—ab
Mori, K., *et al.,* 77—ab, 830—3 ab
—— *See* Miwa, M., 828—ab
—— *See* Yamashita, H., 87—ab
Morigami, S., *et al.,* 83—ab, 830—ab
Morris, H. J. *See* Nelson, A. A., 846—ab
Morris, H. P., *et al.,* 432—ab, 978—ab
—— **and S. W. Lippincott.** Effect of pantothenic acid on growth of spontaneous mammary carcinoma in C3H mice, 753*
—— *See* Lippincott, S. W., 978—ab
Morrison, H. R. *See* Gall, E. A., 846—ab
Morrison, W. B., 590—ab
Morrison, W. H., 770—ab
Morse, A. H., 339—ab
Mortality, cancer, and solar radiation, in North America. Apperly, F. L., 191, 258—ab
—— —— New York City. Duffield, T. J., and M. Di Mario, 413, 438—ab
—— —— United States, 93—ab
—— Connecticut, 1939. Welling, W. C., 592—ab
—— husbands and wives. Ciocco, A., 438—ab
Morton, J. J., *et al.,* 81—ab, 330—ab
—— **and G. B. Mider.** Some effects of carcinogenic agents on mice subject to spontaneous leukoses, 95, 168—ab
—— *See* Mider, G. B., 77—ab
Moskop Kirtz, M. *See* Suntzeff, V., 446, 507—ab
Mosto, D., 343—ab
Motion pictures, dividing fibroblasts. Lewis, W. H., 336—ab
Mottram, J. C. Abnormal paramecia produced by blastogenic agents and their bearing on the cancer problem, 313, 330—ab
—— 508—ab
—— *See* Gray, L. H., 334—ab
Mottshaw, H. R. *See* Bowman, R. O., 308, 335—ab
Mouse, laboratory, biology. Jackson, Roscoe B., Memorial Laboratory, Staff, 593—ab
Mouth, cancer, chemical aspects of buyo-cheek cancer. Woelfel, W. D., J. W. Spies, and J. K. Cline, 748*
—— —— etiologic role of chewing tobacco. Friedell, H. L., *et al.,* 837—ab
—— —— floor. Martin, H. E., *et al.,* 90—ab
—— cysts of dental origin. Yando, A. H., *et al.,* 341—ab
—— malignant melanoma. Baxter, H., 341—ab
Mozambique, Portuguese, primary malignant tumors of liver in natives. Prates, M., 177—ab
Mueller, A. *See* Jones, A. J., 587—ab
Mufson, S., *et al.,* 514—ab
Muir, R., 510—ab
Mullen, T. F., 435—ab
Müller, H. *See* Schramm, G., 583—ab
Muller, H. J. *See* Mackenzie, K., 508—ab
Munro, D., *et al.,* 770—ab
Murphy, J. T., *et al.,* 257—ab
Murphy, Jas. B., and E. Sturm. Further investigation on the transmission of induced tumors in fowls, 609, 669—ab
—— **and** —— Further investigations of induced tumors in fowls, 477, 506—ab
—— **and** —— The transmission of an induced lymphatic leukemia and lymphosarcoma in the rat, 379, 431—ab
Murphy, K. M. *See* Davis, J. H., 580—ab
Murray, W. S. Studies on the effect of foster nursing and its relation to the development of mammary carcinoma in the mouse, 738*, 790, 827—ab
—— Studies on the inheritance of mammary carcinoma in the mouse. Concentration of the extrachromosomal factor. Physiological stability of the individual, 123, 171—ab
—— 827—ab
—— **and J. G. Hoffman.** Physiological age as a basis for the comparison of strains of mice subject to spontaneous mammary carcinoma, 298, 333—ab
Muscolo, D. T., 177—ab
Muus, J., *et al.,* 671—ab
Myasthenia gravis, with thymoma. Aronson, S. F., 918—ab
Myeloma, endothelial (Ewing's tumor of bone). Gharpure, V. V., 844—ab
—— multiple. Kinney, L. C., 844—ab
—— —— Perillo, J. A., 916—ab
—— —— Tollman, J. P., *et al.,* 845—ab

—— —— x-ray and blood examinations. Marquis, W. J., 93—ab
—— solitary, of bone. Paul, L. W., *et al.*, 845—ab
Myelomatosis, multiple, serum proteins in. Kekwick, R. A., 92—ab
Myerding, H. W., *et al.*, 844—ab
Myoblastoma, thoracic wall. Grayzel, D. M., *et al.*, 845—ab
Myocardium, metastatic tumors, review. Ritchie, G., 980—ab
Myosarcoma, stomach. Platt, O. R., *et al.*, 514—ab
Myxoma, pseudo, peritoneum. Darú, E., *et al.*, 437—ab
—— virus, neutralization by specific immune serum. Parker, R. F., *et al.*, 831—ab
Myxomatosis, infectious, chemical study of virus. Balls, A. K., *et al.*, 170—ab

Nagahara, Y., 87—ab
Nagao, N., 77—ab, 581—2 ab
Naito, K., *et al.*, 588—ab
Nakahara, W. *See* Kishi, S., 83—ab
—— *See* Mori, K., 77—ab
Nakamura, H., *et al.*, 85—ab
Nasopharynx, fibroma. Walker, G. W., *et al.*, 839—ab
—— fibromas. Figi, F. A., 90—ab
—— tumors, malignant. Faier, S. Z., 837—ab
Nathanson, I. T. *See* Salter, W. T., 60, 79—ab
—— *See* Taylor, G. W., 433—ab
National Cancer Institute, Journal, 94—ab
Nativity, carcinoma of uterus. Smith, F. R., 339—ab
Neal, M. P., *et al.*, 683—ab
Neck, teratoma, in newborn. Chapman, F. D., 918—ab
Negro, American, melanoma. Anderson, W. A. D., 680—ab
—— carcinoma primary. Quinland, W. S., *et al.*, 89—ab
—— epithelioma and senile keratosis. Spencer, G. A., 912—ab
Neill, W. *See* Hersperger, W. G., 680—ab
Nelson, A. A., *et al.*, 846—ab
Nelson, H. F. *See* Lahey, F. H., 838—ab
Nelson, P. A. *See* Schmitz, H. E., 681—ab
Neoplasms producing endocrine disturbances in childhood. Gross, R. E., 339—ab
Neoplastic tissue, phosphorus metabolism. Erf, L. A., *et al.*, 767—ab
Nephelometric reaction of serum, organ, and tumor protein to heat. Rondoni, P., 831—ab
Nerves, peripheral, tumors, histology. Foot, N. C., 87—ab
Nervous system. *See* Brain, Meninges, Neuroblastoma, etc.
Nessler, A. B., 514—ab
Nettleship, A., 848—ab
Neuberger, K., 840—ab
Neufach, S. A. *See* Kleinenberg, H. E., 76—ab, 853, 905—ab
Neumann, A., 591—ab
Neurilemmoma, bone, primary and secondary. DeSanto, D. A., *et al.*, 92—ab
—— stomach, with peptic ulcer. Fuller, R. H., 915—ab
Neuroblastoma, abdominal, calcification. Parsons, P. B., *et al.*, 87—ab
Neurofibroma, bladder. Thompson, G. J., *et al.*, 90—ab
Neurofibromas, bilateral, acoustic. Gardner, W. J., *et al.*, 834—ab
—— intrathoracic. Kornblum, K., *et al.*, 343—ab
Neurofibromatosis, carcinoma of the breast and pregnancy. Charache, H., 87—ab
—— in 4 brothers. Garland, A., 910—ab
—— lung, with sarcoma. Louria, M., *et al.*, 90—ab
Neurogenic sarcoma. Trueblood, D. V., 433—ab
Neurolymphomatosis, fowls. Blakemore, F., *et al.*, 336—ab
Neutrons, fast, biological effects. Gray, L. H., *et al.*, 334—ab
—— —— use in treatment of malignant disease. Stone, R. S., *et al.*, 678—ab
Neve, E. F., 912—ab
Nevus, pigmented, giant, malignant transformation. Fishback, H. R., 912—ab
New Britain General Hospital, tumor clinic, survey of 1939 experience. Rosahn, P. D., 94—ab
New, G. B., *et al.*, 839—2 ab
New York City, cancer mortality, Duffield, T. J., *et al.*, 438—ab
New York State Institute for the Study of Malignant Diseases, review of cases. Burke, E. M., and A. A. Thibaudeau, 753*
Newcomer, E., 677—ab
Newell, K. R., *et al.*, 338—ab
Newell, R. R. *See* Liljencrantz, E., 676—ab
Newman, M. K., *et al.*, 910—ab
Newman, M. S., *et al.*, 506—ab
Nicholas, L., 912—ab
Nielsen, J., 845—ab
Noble, R. L., *et. al.*, 332—2 ab
Nomland, R. *See* Reuter, M. J., 912—ab
Norris, E. R., and E. E. Troescher. Synthesis of sterol by tumor-bearing rats, 410, 430—ab
Nose and accessory sinuses, advanced cancer; treatment by cautery. Percy, J. F., 341—ab
—— —— throat tumors. New, G. B., *et al.*, 839—ab
Novak, E., 682—ab
Nuclear disintegration, products, localized, of transplantable mouse sarcoma, in vivo effects. Zahl, P. A., *et al.*, 829—ab
Nucleoli, chromosomal nature. Lewis, W. H., 336—ab
Nucleoprotein fraction of normal animal liver. Greenstein, J. P., 82—ab
—— Jensen rat sarcoma, composition and amphoteric properties. Greenstein, J. P., *et al.*, 430—ab
Nucleoproteins, liver, normal and tumorous, indicated by radiophosphorus, related metabolic activities. Kohman, T. P., *et al.*, 767—ab
Nuñez, A. N. *See* Huergo Pino, M., 176—ab
Nursing, foster, and influence of estrogens on incidence of tumors in mice. Bittner, J. J., 290, 331—ab
—— —— effect on inborn resistance of mice to St. Louis encephalitis. Wright, F. H., 253—ab
—— —— —— —— incidence of mammary cancer in mice. DeOme, K. B., 427—ab
—— —— —— —— spontaneous leukemias and tumors in mice. Barnes, W. A., and R. K. Cole, 99, 171—ab
—— —— —— —— response of mice to estrogens. Shimkin, M. B., *et al.*, 671—ab
—— —— genetic susceptibility for tumors of breast in mice. Bittner, J. J., 793, 827—ab
—— —— influence on breast cancer in mice. Bittner, J. J., 253—ab
—— —— —— —— incidence of cancer, mice. Andervont, H. B., 252—ab
—— —— relation to development of mammary carcinoma in mouse. Murray, W. S., 738*, 790, 827—ab
Nutter, P. B. *See* Schindler, R., 92—ab
Nystrom, G., 340—ab, 343—ab

O'Brien, F. W., 257—ab
Occupation, cancer, annual report of the chief inspector of factories, England, 1939, 437—ab
—— skin cancer, Texas. Phillips, C., 592—ab
Ochsner, A., *et al.*, 343—ab, 344—ab, 514—ab, 840—ab
Ockerblad, N. F. *See* Carlson, H. E., 847—ab
O'Conor, V. J., 176—ab
Oda, T., *et al.*, 88—ab
Oil refining, cancer morbidity and mortality, in company, 1933-38. Gafafer, W. M., 93—ab
Oils, autoxidation, effect of carcinogenic hydrocarbons and related compounds. Deutsch, H. F., D. L. Miner, and H. P. Rusch, 818, 825—ab
Olcott, C. T. *See* Papanicolaou, G. N., 832—ab
Olds, J. W., *et al.*, 91—ab
Ollier's disease and multiple chondromatosis. Pique, J. A., *et al.*, 177—ab
Olson, C., Jr. A transmissible lymphoid tumor of the chicken, 413, 432—ab
Omentum, sarcoma primary. Levy, J. H., *et al.*, 437—ab
Optic nerve, intra-orbital tumor. Himson, G. W., 769—ab
Orbison, J. L., H. A. Davenport, F. B. Queen, D. D. Spicer, and R. M. Galt. An effect of heredity on the susceptibility of rats to implants of an induced sarcoma, 891, 907—ab
Orbital tumors, transcranial operative attack. Dandy, W. E., 589—ab

Ormond, J. K., *et al.,* 684—ab
Orr, J. W., *et al.,* 830—ab
Orr, T. G., 437—ab, 841—ab
Osgood, E. E., 428—ab
Osteochondroblastoma, primary, metacarpal. Manzanilla, M. A., 258—ab
Osteogenic sarcoma. Walker, W. B., 436—ab
—— —— meningeal origin. Turner, O. A., *et al.,* 913—ab
—— —— treatment. Ferguson, A. B., 92—ab
Osteogenic tumors, inter-relationships. Jacobson, S.A., 844—ab
Osteoma eburneum, mastoid. Cinelli, A. A., 843—ab
—— maxillary sinus. Rawlins, A. G., 845—ab
—— osteoid, of femur. Kleinberg, S., 844—ab
—— primary, frontal sinus. Teed, R. W., 845—ab
Osteomas, cranial. Schwartz, C. W., 92—ab
Oswald, W., *et al.,* 586—ab
Oughterson, A. W., 979—ab
—— *See* Hirshfeld, J. W., 80—ab
Ovary, arrhenoblastoma. Althabe, A., *et al.,* 176—ab
—— —— Kanter, A. E., *et al.,* 914—ab
—— —— Krock, F., 340—ab
—— Brenner's tumor. Grayzel, D. M., *et al.,* 914—ab
—— cancer. Meigs, J. V., 88—ab
—— carcinoma, primary signet-ring cell. Schiller, W., *et al.,* 257—ab
—— —— treatment. Walter, R. I., *et al.,* 682—ab
—— cysts, occurrence of estrogens. Watts, R. M., and F. L. Adair, 638, 682—ab, 752*
—— dermoid, carcinoid in stomach tissue. Gabrilove, J. L., 681—ab
—— disgerminoma, complicated by pregnancy, estrogen determinations. Lorber, H., *et al.,* 681—ab
—— fibroma, Meigs syndrome, and pleural effusion. Harris, F. I., *et al.,* 339—ab
—— granulosa and theca cell tumors. Henderson, D. N., 914—ab
—— mesonephroma, malignant. Tuta, J. A., *et al.,* 682—ab
—— multilocular cystadenoma. MacFee, W. F., 682—ab
—— origin of generalized peritoneal carcinoma. Zuckermann, C., 176—ab
—— papillary cystadenocarcinoma. Jones, F. H., 681—ab
—— papillo-endothelioma, Schiller's mesonephroma ovarii. Kazancigil, T. R., *et al.,* 434—ab
—— primary chorionepithelioma. Backus, G. R., *et al.,* 681—ab
—— teratoma, association with malignant chorio-epithelioma and carcinoma. Oda, T., *et al.,* 88—ab
—— tumor of inner theca. Dionisi, H., 257—ab
—— —— Colillas, D., *et al.,* 176—ab
—— —— of endocrine nature. Novak, E., 682—ab
—— —— pubertas praecox due to. Lull, C. B., 340—ab
Ovulation, house mouse, cycle and factors. Snell, G. D., *et al.,* 332—ab
Oxidation behavior, artificially benign tumors, and homologous tissues. Craig, F. N., A. M. Bassett, and W. T. Salter, 751*, 869, 908—ab
—— phospholipid, inhibition by carcinogenic and related compounds. Rusch, H. P., and B. E. Kline, 465, 509—ab, 749*
Oxidations, thermostable, in tumor and muscle tissue. Feinstein, R. N., *et al.,* 430—ab

Pack, G. T., *et al.,* 588—ab, 592—ab
Pagès, J. M. *See* Masciottra, R. L., 176—ab
Pain, cancer, terminal, control by medication. Lee, L. E., Jr., 175—ab
Palate, melanoma, malignant. Gotshalk, H. C., *et al.,* 90—ab
Paletta, F. X., E. V. Cowdry, and C. E. Lischer. Comparison of methylcholanthrene hyperplastic epidermis with benign hyperplastic epidermis in healing wounds, 942, 975—ab
Paletta, F. X. *See* Cowdry, E. V., 668—ab, 905—ab
Palma, J. *See* Lipschütz, A., 575, 582—ab
Palmer, W. L. *See* Klein, A. J., 76—ab, 515—ab
—— *See* Schindler, R., 92—ab
Pancreas, adenoma of islets of Langerhans, hyperinsulinism. Burtness, H. I., *et al.,* 848—ab
—— carcinoma. Kauer, J. T., *et al.,* 848—ab
—— —— of aberrant insular tissue in liver, hypoglycemia. Ballinger, J., 848—ab
—— —— of islands of Langerhans, hypoglycemia, metastases to liver. Flinn, L. B., *et al.,* 848—ab
—— —— with clinical review. Lloyd, T. P., *et al.,* 93—ab
—— head, carcinoma. Flynn, J. M., 848—ab
—— —— —— Franco, S. C., 848—ab
—— —— resection for carcinoma. Orr, T. G., 437—ab
—— islet cell tumors. Meyer, K. A., *et al.,* 916—ab
—— papillary cystadenocarcinoma. Kennard, H. E., 436—ab
—— tail, carcinoma and diabetes. Sano, M. E., 916—ab
—— tumors. Brown, S. J., *et al.,* 848—ab
—— —— of islets of Langerhans with hyperinsulinism. Frantz, V. K., 848—ab
Pancreatic tissue, heterotopic, producing pyloric obstruction. Krieg, E. G., 436—ab
Pantothenic acid deficiency in mouse, morphologic changes. Lippincott, S. W., *et al.,* 978—ab
—— —— effect on growth and maintenance of life in C3H mice. Morris, H. P., *et al.,* 978—ab
—— —— —— of spontaneous mammary carcinoma in C3H mice. Morris, H. P., and S. W. Lippincott, 753*
—— —— —— —— sarcoma in female C3H mice. Morris, H. P., 978—ab
Papanicolaou, G. N., *et al.,* 832—ab
Papilloma, rabbit, virus protein purification and properties. Bryan, W. R., *et al.,* 826—ab
—— virus and its antibody, union in vitro. Friedewald, W. F., *et al.,* 827—ab
—— rabbit, virus-induced, identity of inhibitor and antibody in extracts. Friedewald, W. F., 826—ab
Paraffinoma, knee, large bone-forming, cured with xylol. Roffo, A. H., 588—ab
Paramecia, abnormal, produced by blastogenic agents and their bearing on cancer problem. Mottram, J. C., 313, 330—ab
—— methylcholanthrene-adapted, survival value. Spencer, R. R., *et al.,* 423—ab
Paramecium multimicronucleatum, behavior after adaptation to methylcholanthrene. Spencer, R. R., and M. B. Melroy, 748*
Parathyroid glands, malignant adenoma. Hall, E. M., *et al.,* 918—ab
Parker, H. M. *See* Cantril, S. T., 675—ab
Parker, R. F., *et al.,* 831—ab
Parotid gland, lymphoepithelioma. Fein, M. J., 916—ab
—— right, teratoma with metastasis to sternum and second rib left. Livingston, S. K., 90—ab
Parpart, A. K. *See* Lucké, B., 709, 766—ab
Parran, T., *et al.,* 94—ab
Parsons, L. D., *et al.,* 909—ab
Parsons, P. B., *et al.,* 87—ab
Parsons, W. *See* Albright, F., 917—ab
Paternal parent, influence on susceptibility of mice to mammary tumors. Andervont, H. B., *et al.,* 977—ab
Patterson, D. C., *et al.,* 683—ab
Patterson, G. H., *et al.,* 770—ab
Patras, M. C. *See* Ferguson, R. L., 78—ab
Paul, L. W., *et al.,* 845—ab
Peacock, P. R., *et al.,* 174—ab, 423—ab, 831—ab
—— *See* Beck, S., 166—ab, 908—ab
Pearlman, S., 435—ab
Pearlman, W. H. *See* Pincus, G., 970, 975—ab
Pearse, R., *et al.,* 837—ab
Pearson, B. *See* Halpert, B., 434—ab
Pecher, C., 253—ab, 254—ab
Pecher, J. *See* Pecher, C., 254—ab
Peck, W. S., *et al.,* 88—ab
Peet, M. N., 432—ab
Peller, S. Malignant melanoma cutis, 538, 591—ab
—— 88—2 ab, 178—ab, 510—ab
Pelvis, examination, periodic, cancer control. MacFarlane, C., *et al.,* 258—ab
—— tumors, calcified, x-ray diagnosis. Stevenson, C. A., 683—ab
Penfield, W., *et al.,* 833—ab

Penis, tumors. Carson, W. J., 89—ab
Pentimalli, F. Transplantable lymphosarcoma of the chicken, 69, 85—ab
Pepo, A. L. *See* Arenas, N., 339—ab
Peptidase activities of cathepsins of normal rat tissue and Jensen rat sarcoma. Maver, M. E., *et al.*, 673—ab
—— activity, serum, diagnostic test for cancer. Maver, M. E., J. M. Johnson, and J. W. Thompson, 751*, 910—ab
Peptides, enzymatic hydrolysis. Berger, J., *et al.*, 584—ab
Percy, J. F., 341—ab
Periosteum, fibrosarcoma. Batts, M., Jr., 842—ab
Perillo, J. A., 916—ab
Peritoneum and pleura, tumors. Gerundo, M., 840—ab
—— pseudomyxoma. Darú, E., *et al.*, 437—ab
Perlman, L. *See* Meyer, K. A., 916—ab
Perloff, W. H., *et al.*, 425—ab
Perrault, A. *See* Shear, M. J., 423—ab
Perrín, T. G., 256—ab
Pfahler, G. E., 677—ab
Pfeiffer crystallization method for diagnosis of cancer. Gruner, O. C., 586—ab
Phagocytosis by cancer cells, intracellular inclusion bodies. Vadász, J., 832—ab
Pharynx, cancer, diagnosis and treatment. Christie, A. C., 837—ab
—— laryngopharynx, cancer. Arbuckle, M. F., *et al.*, 341—ab
—— reticulosarcoma. Hanafusa, S., *et al.*, 90—ab
Phelps, D. *See* Cleveland, R., 581—ab
Phenanthrene, tetramethyl. Hewett, C. L., *et al.*, 76—ab
Pheochromocytoma, excision, following near fatal attack of paroxysmal hypertension. Brunschwig, A., *et al.*, 93—ab
—— intrathoracic. Philips, B., 91—ab
—— surgical treatment. Biskind, G. R., *et al.*, 847—ab
Philips, B., 91—ab
Phillips, C., 592—ab, 680—ab
Phillips, R. B., 910—ab
Phosphatase, alkaline, histochemical study of distribution in various normal and neoplastic tissues. Kabat, E. A., *et al.*, 673—ab
—— metabolism of normal and tumor tissues in culture. Brues, A. M., and W. E. Cohn, 434*
—— plasma, during embryonic and tumor growth. Weil, L., 768—ab
—— serum acid, relation to bone metastases from carcinoma of prostate. Herger, C. C., *et al.*, 914—ab
—— —— and tissue, in evaluating radiation therapy of bone tumors. Woodward, H. O., *et al.*, 679—ab
—— —— in cancer of prostate. Huggins, C., and C. V. Hodges, 293, 340—ab
Phospholipid, oxidation inhibited by carcinogenic and related compounds. Rusch, H. P., and B. E. Kline, 465, 509—ab, 749*
Phospholipids, rate of turnover of lecithins and cephalins of carcinosarcoma 256 measured by radioactive phosphorus. Haven, F. L., 254—ab
Phosphorus exchange in tissues of patients with lymphoid leukemia. Erf, L. A., *et al.*, 767—ab
—— metabolism in neoplastic tissue. Erf, L. A., *et al.*, 767—ab
—— —— of neoplastic tissues, indicated by radioactive phosphorus. Jones, H. B., *et al.*, 428—ab
—— —— of soft tissues of normal mouse, indicated by radioactive phosphorus. Jones, H. B., *et al.*, 428—ab
—— organic, postirradiation changes in leukemia. Abels, J. C., J. M. Kenney, L. Craver, L. D. Marinelli, and C. P. Rhoads, 771, 845—ab
—— radioactive, treatment of leukemia. Warren, S., 730*
—— —— treatment of leukemia and polycythemia. Lawrence, H. R., 256—ab
—— —— uptake by nuclei of liver and tumors. Marshak, A., 334—ab
Photography, infra-red, applied to tumors. Braga, A., 256—ab
Physical factors influencing growth of cancer. Lucké, B., 80—ab
Physiology, stability in relation to mammary carcinoma in mouse. Murray, W. S., 123, 171—ab
Picena, J. S. *See* Warren, S., 847—ab
Pierson, J. W., *et al.*, 845—ab
Pikovski, M. *See* Doljanski, L., 174—ab, 205, 255—ab, 508—ab
Pilcher, F., *et al.*, 837—ab
Pincus, G., and W. H. Pearlman. Steroid excretion in cancerous and noncancerous persons. II. Urinary estrogens, 970, 975—ab
Pineal body, teratoma. Lichtenstein, B. W., 917—ab
—— gland and liver, effects of extracts on development tumors in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.*, 331—ab
—— —— —— —— —— of products on growth of tumors in mice. Dobrovolskaïa-Zavadskaïa, N., *et al.*, 331—ab
—— —— role of age in its function. Zephiroff, P., *et al.*, 336—ab
Pinealoma. Globus, J. H., 917—ab
Pique, J. A., *et al.*, 177—ab
Pituitary adenoma, primary, and syndrome of cavernous sinus. Weinberger, L. M., *et al.*, 917—ab
—— anterior, effect of extract on growth of cartilage and bone in guinea pig. Silberberg, M., *et al.*, 426—ab
—— —— hormone, prevention spontaneous mammary cancer in mice. Cramer, W., 906—ab
—— —— mammogenic duct growth factor, stimulation by estrogens and a carcinogen. Lewis, A. A., and C. W. Turner, 55, 78—ab
—— carcinoma, clinical problems. Aoring, C. D., *et al.*, 917—ab
—— chromophobe adenoma, with Simmonds' disease. Moran, T. J., *et al.*, 917—ab
—— Simmonds' disease with pernicious anemia, bioassay of chromophobe adenoma. Foster, M. A., *et al.*, 917—ab
—— thyrotropic hormone, failure to prevent spontaneous mammary cancer in mice. Haagensen, C. D., *et al.*, 252—ab
—— tumors, and mammary, in hybrid mice, effect of estrogen on incidence. Gardner, W. U., 345, 424—ab, 738*
Plantar tissues, fibrosarcoma. Collins, N. C., *et al.*, 918—ab
Plasma phosphatase during embryonic and tumor growth. Weil, L., 768—ab
Plasmocytoma, protein metabolism. Apitz, K., 846—ab
Plass, E. D., 683—ab
Platt, L. *See* Parsons, P. B., 87—ab
Platt, O. R., *et al.*, 514—ab
Plaut, A., *et al.*, 89—ab
Pleura and peritoneum, tumors. Gerundo, M., 840—ab
—— leiomyosarcoma. Stryker, W. A., 91—ab
Pleural mesothelioma, growth rate. Bohrod, M. G., 176—ab
Plewes, B., 912—ab
Pneumonectomy, for removal of metastatic carcinoma, Nystrom, G., 343—ab
Pohle, E. A. *See* Paul, L. W., 845—ab
Pohlmann, H. F. *See* Cosco, N. P., 846—ab
Polak, M., 330—ab, 344—ab
Polarograph, determination of natural products. Hershberg, E. B., *et al.*, 430—ab
—— —— of ketonic steroids. Wolfe, J. K., *et al.*, 431—ab
Poling, E. C. *See* Gyorgy, P., 668—ab
Pólya, E., 179—ab
Polycyclic compounds, metabolism. Boyland, E., *et al.*, 505—ab
Polycythemia, treatment with radioactive phosphorus. Lawrence, H. R., 256—ab
Polyposis, intestinal multiple, and carcinoma. Masciottra, R. L., *et al.*, 176—ab
Pool, J. L. *See* Watson, W. L., 93—ab
Pool, R. M. *See* Walsh, G., 89—ab
Popper, H., *et al.*, 831—ab
Portis, N. B. *See* Jaffe, H. L., 92—ab
Posterior fossa, neoplasm, simulating cerebral vascular disease. Meyer, B. C., 770—ab
Potassium β-indolacetate, effect on growth of carcinoma in mice. Tanaka, A., *et al.*, 79—ab
—— deficiency, effects on tumor-bearing mice. Liebow, A. A., *et al.*, 585—ab
—— isotopic, in animal tumors and muscle from tumor-bearing animals. Lasnitzki, A., and A. K. Brewer, 776, 829—ab
Powell, E. V., 677—ab

Powell, W. N., 847—ab
Prates, M., 177—ab
Precipitin, carcinoma protein. Mann, L. S., 84—ab
Pregnancy complicated by cancer of cervix. Morse, A. H., 339—ab
—— tumors complicating. Johnston, R. A., *et al.,* 88—ab
Pressly, T. A., 514—ab
Pressure, atmospheric, lowered, effect on spontaneous tumors in mice. Rohdenburg, G. L., 310, 336—ab
Priestley, J. R., 837—ab
Primary malignancy, triple Shapiro, A. L., *et al.,* 980—ab
Prince, C. L. *See* Ormond, J. K., 684—ab
Proceedings, American Association for Cancer Research, 33rd Annual Meeting, 1940, 71, 94—ab
—— American Association for Cancer Research, Inc., 34th Annual Meeting, 1941, 729
—— Seventh International Genetical Congress, 438—ab
—— 32nd Scientific Meeting, Japanese Foundation for Cancer Research, 94—ab
Prodigiosus filtrate, effect of concentrate on subcutaneous primary induced mouse tumors. Shear, M. J., 731*
—— fraction, properties producing hemorrhage in mouse sarcomas. Shear, M. J., H. Kahler, and F. C. Turner, 741*
Prognosis, cancer, glucose tolerance test. Rohdenburg, G. L., 311, 437—ab
Prolan, production of hepatoma. Ito, S., 78—ab
Proline and tumor incidence in mice. Hammett, F. S., 254—ab
—— influence on growth of spontaneous tumors in the mouse. Hammett, F. S., 673—ab
Prostate, cancer, effect of castration. Huggins, C., *et al.,* 340—ab
—— —— effect of castration, estrogen and androgen injection on serum phosphatases in metastatic carcinoma. Huggins, C., and C. V. Hodges, 293, 340—ab
—— carcinoma. Barnes, R. W., 89—ab
—— —— bone metastasis. Marks, J. H., 89—ab
—— —— —— —— relation to serum acid phosphatase. Herger, C. C., *et al.,* 914—ab
—— —— diagnostic pitfalls. Kickham, C. J. E., 340—ab
—— —— surgical treatment. Thompson, G. J., 683—ab
—— —— results with ultradeep roentgen therapy, 400,000 volts. Roffo, A. E., *et al.,* 677—ab
—— —— ureteral extension. Higgins, W. H., 683—ab
—— sarcoma. Counsellor, V. S., *et al.,* 89—ab
—— —— Fister, G. M., 89—ab
—— —— Stevens, A. R., *et al.,* 89—ab
—— spontaneous primary carcinoma in monkey. Engle, E. T., *et al.,* 85—ab
Protein, carcinoma, precipitin. Mann, L. S., 84—ab
—— metabolism associated with plasmocytoma. Apitz, K., 846—ab
—— metabolism, transamination, in tumors. Cohen, P. P., *et al.,* 672—ab
Proteins conjugated with isocyanates of polynuclear hydrocarbons. Creech, H. J., *et al.,* 668—ab
—— malignant tissue, glutamic acid. Woodward, G. E., *et al.,* 768—ab
—— tumor, N- and P-containing fractions. Rondoni, P., 173—ab
Provitamin D, in experimental hepatoma in rat. Kishi, S., *et al.,* 83—ab
Pseudoglobulin, melanin-containing, from malignant melanoma of mice. Greenstein, J. P., *et al.,* 430—ab
Puberty, precocious, and tumors of hypothalamus. Weinberger, L. M., *et al.,* 833—ab
Puente Duany, N., 684—ab
Pund, E. R., *et al.,* 847—ab
—— *See* Levy, J. H., 437—ab
Pybus, F. C., *et al.,* 171—2 ab
Pyloric, prepyloric, ulceration, differential diagnosis. Doub, H. P., 91—ab

Queen, F. B. *See* Davenport, H. A., 821, 825—ab
—— *See* Orbison, J. L., 891, 907—ab
Quigley, D. T., 85—ab
Quinland, W. S., *et al.,* 89—ab

Rabbit, kidney tumor. Miyadi, T., 85—ab
—— papilloma virus, factors influencing inactivation by x-rays. Friedenwald, W. F., *et al.,* 427—ab
—— tumors, spontaneous, uterus and breast. Burrows, H., 175—ab
Radiant energy, biologic action. Whitmore, E. R., 81—ab
Radiation. *See also* Therapy; Treatment
Radiation and the cell. Henshaw, P. S., 428—ab
—— cancer of cervix. O'Brien, F. W., 257—ab
—— —— patients, sedimentation reaction in prognosis. Jacoby, P., *et al.,* 911—ab
—— castration, auxiliary treatment in mammary cancer. Donaldson, S. W., *et al.,* 675—ab
—— changes in lungs and thorax following. Fried, J., *et al.,* 86—ab
—— damage, and repair. Daland, E. M., 338—ab
—— effect of high and low body temperatures on growth of irradiated mouse sarcoma 180. Sugiura, K., 907—ab
—— —— —— visible light on development of tumors induced by benzpyrene in skin of mice. Morton, J. J., *et al.,* 81—ab
—— —— on cancer. Bell, A. L. L., 86—ab
—— interstitial, treatment, carcinoma of breast. Teahan, R. W., 679—ab
—— localization of lithium in tumor tissue, basis for slow neutron therapy. Zahl, P. A., *et al.,* 335—ab
—— necrosis and infected tumors, use of zinc peroxide. Sunderland, D. A., *et al.,* 588—ab
—— preoperative, of breast cancer. Powell, E. V., 677—ab
—— protection in hospitals, survey. Cowie, D. B., *et al.,* 910—ab
—— radium treatment, cancer of uterine fundus. Fricke, R. E., *et al.,* 910—ab
—— roentgen, direct and indirect effects on blood-forming organs of rats. Hsu, Chien-Liang, *et al.,* 81—ab
—— solar, relation to cancer mortality in North America. Apperly, F. L., 191, 258—ab
—— therapeutic, cytologic effects. Fogg, L. C., and S. Warren, 649, 672—ab
—— therapy, biologic fundamentals. Ellinger, F., 593—ab
—— —— bone tumors, serum and tissue phosphatase determinations in evaluating. Woodard, H. Q., *et al.,* 679—ab
—— —— cancer, influence of periodic fluctuations in blood. Gruner, O. C., 911—ab
—— —— —— of skin. Widmann, B. P., 679—ab
—— —— carcinoma of larynx. Salinger, S., 678—ab
—— —— —— of skin. Wigby, P. E., *et al.,* 257—ab
—— —— —— of uterus. Arneson, A. N., *et al.,* 88—ab
—— —— head and neck neoplasms. Robinson, G. A., 911—ab
—— —— in gynecology. Meigs, J. V., 676—ab
—— —— giant follicular lymphadenopathy and polymorphous cell sarcoma (Symmers' disease). Rubenfeld, S., 86—ab
—— —— of cancer, advances. Martin, C. L., 911—ab
—— —— of epithelial tumors of bladder. Dean, A. L., *et al.,* 511—ab
—— ultraviolet, cutaneous neoplastic responses in hairless rats and haired litter mates. Hueper, W. C., 402, 428—ab, 742*
—— —— effects on sodium thymonucleate. Hollaender, A., *et al.,* 977—ab
—— —— followed by increased ultraviolet absorption of cells. Loofbourow, J. R., *et al.,* 908—ab
—— —— induced tumors of strain A mice, pathological features. Grady, H. G., H. F. Blum, and J. S. Kirby-Smith, 736*
—— —— tumors of skin of mice. Kirby-Smith, J. S., and H. G. Grady, 742*
—— x-ray, action on sperm motility and subsequent embryonic development. Henshaw, P. S., 753*
—— —— and colchicine, effect on transplantable mammary carcinoma in mice. Hirshfeld, J. W., *et al.,* 80—ab
—— —— effect on tumor of known genetic constitution. Reinhard, M. C., S. G. Warner, and H. L. Goltz, 653, 672—ab, 741*
—— —— prolonged, effect on Congo red index of rabbits. Hoch-Ligeti, C., 28, 81—ab
—— —— therapy, infections and tumors. Allison, R. G., 910—ab

Radiations, ionization, biological action. Failla, G., 80—ab
Radice, J. C., 344—ab
Radioactive calcium and strontium, biological investigations. Pecher, C., 253—ab
—— phosphorus, metabolism by malignant neoplasms in human beings. Kenney, J. M., 335—ab
—— —— used to measure the rate of turnover of lecithins and cephalins of carcinosarcoma 256. Haven, F. L., 254—ab
Radioactivity, artificial. Seaborg, G. T., 172—ab
Radio-calcium and radio-strontium metabolism in pregnant mice. Pecher, C., *et al.,* 254—ab
Radiography, body-section, in malignancy of the lower respiratory tract. Moore, S., 343—ab
Radiophosphorus, related metabolic activities of normal and tumorous liver nucleoproteins. Kohman, T. P., *et al.,* 767—ab
Radiosensitivity of sarcomas of small intestine. Chont, L. K., 256—ab
—— —— tumors. Warren, S., 828—ab
Radiotherapy, cancer, combined glucose and insulin treatment associated. Naito, K., *et al.,* 588—ab
Radium and 800 kilovolt x-rays, treatment of cervical carcinoma, 5-year end results. Schmitz, H. E., *et al.,* 678—ab
—— —— x-ray in treatment of cancer of head and neck. Sharp, G. S., 678—ab
—— beam therapy. Kaplan, I. I., 676—ab
—— dangers and uses in treatment of carcinoma of uterus. Sachs, M. D., 678—ab
—— medical uses, British experimental research centres, 1939, 511—ab
—— progress since earliest therapeutic availability. Soiland, A., 678—ab
—— therapy, intracavitory, physical study. Maynecord, W. V., *et al.,* 676—ab
—— —— cancer of uterus. Hurdon, E., 676—ab
—— —— carcinoma of corpus uteri, description of new hysterostat. Friedman, M., 256—ab
—— —— rodent ulcer near eye. Charteris, A. A., 86—ab
—— —— 200 cases of carcinoma of cervix. Wilkins, G. C., 679—ab
Radner, D. B. *See* Holinger, P., 342—ab
Radon tubules, lead, treatment, cancer of tongue. Simpson, F. E., *et al.,* 678—ab
Raedemaker, L., 980—ab
Ragins, A. B. *See* Popper, H., 831—ab
—— *See* River, L., 590—ab
Randall, H. T. *See* Haagensen, C. D., 252—ab
Rankin, F. W., 980—ab
Ransom, H. K. *See* Peck, W. S., 88—ab
Rasmussen, R. A., *et al.,* 435—ab
—— *See* Brunschwig, A., 371, 429—ab, 515—ab, 749*
Rat, reticulum cell sarcoma. Jenney, F. S., 407, 432—ab
Rawlins, A. G., 845—ab
Ray, B. S., *et al.,* 833—ab
Ray, W. B. *See* Haythorn, S. R., 840—ab
Rea, C. *See* Yolton, N., 339—ab
Read, J. *See* Gray, L. H., 334—ab
Recession, spontaneous, of malignant tumors. Baumeister, C. F., Sr., *et al.,* 910—ab
Record forms, cancer, of the American College of Surgeons. Pack, G. F., 592—ab
Rectum, cancer. MacFarlane, J. A., 590—ab
—— —— grading. Smith, T. E., 92—ab
—— —— high frequency currents, treatment. de Cholnoky, T., 512—ab
—— —— prognosis. Broders, A. C., *et al.,* 91—ab
—— —— studies. Morais, V., 513—ab
—— —— venous spread. Dukes, C. E., *et al.,* 915—ab
—— carcinoma. McLaughlin, C. W., Jr., *et al.,* 841—ab
—— —— amebic dysentery complicating diagnosis. Landsman, A. A., 590—ab
—— —— early diagnosis and treatment. Jones, T. E., 176—ab
—— —— pathological aspects. Reimann, S. P., 435—ab
—— —— recurrent. Johns, F. S., 435—ab
—— sigmoid, and anus, cancer. Hayes, H. T., *et al.,* 841—ab
Refrigeration, cancer, observations in 100 advanced cases. Smith, L. W., 588—ab
—— human, prolonged, observations. Fay, T., 587—ab
—— treatment of tumors of the bladder. McCravey, A., 588—ab
Regression, transplantable tumor in mice. Bunting, H., 586—ab
Reid, M. R., 515—ab
Reifenstein, E. C., Jr. *See* Fraser, R. W., 509—ab
Reimann, S. P., 83—ab, 435—ab
Reinhard, M. C., *et al.,* 672—ab
—— **S. G. Warner, and H. L. Goltz.** Further studies on the effect of x-rays on a tumor of known genetic constitution, 653, 741*
Reinhart, F. E. *See* Woodward, G. E., 768—ab
Resistance. *See also* Immunity
Resistance, induced, to tumors, nonspecific nature. Eisen, M. J., and W. H. Woglom, 629, 673—ab
Respiratory tract, lower, body-section radiography in malignancy. Moore, S., 343—ab
—— upper, and alimentary tracts, cancer distant metastasis. Braund, R. R., *et al.,* 839—ab
Reticuloendothelial function, cancer patients. Stern, K., 432—ab
Reticulo-endotheliosis. Lamb, J. H., *et al.,* 93—ab
Reticulosarcoma, pharynx. Hanafusa, S., *et al.,* 90—ab
—— retroperitoneal. Wakabayashi, O., 842—ab
Reticulum cell lymphosarcoma, rats. Nelson, A. A., *et al.,* 846—ab
—— —— sarcoma, from leukemic myeloreticulosis. Benecke, E., 846—ab
—— —— —— lymph nodes. Warren, S., *et al.,* 847—ab
—— —— —— primary, spine. Edwards, J. E., 843—ab
—— —— —— rat, 12 successive passages. Jenney, F. S., 407, 432—ab
—— —— sarcomatosis, generalized. Gloggengiesser, W., 513—ab
Retinoblastoma, bilateral. Morrison, W. H., 770—ab
—— inheritance, and relationship to practical eugenics. Weller, C. V., 517, 589—ab
Reuter, M. J., *et al.,* 912—ab
Reznick, S. *See* Wolfson, S. A., 587—ab
Rhabdomyosarcoma, metastases to lung from teratoma testis. Bosse, M. D., 89—ab
Rhoads, C. P. Detoxification of chemical carcinogens, 742*
—— 516—ab
—— *See* Abels, J. C., 771, 845—ab
—— *See* Kensler, C. J., 585—ab
—— *See* Sugiura, K., 3, 83—ab
Riboflavin, and casein, effect on production of liver cancer by dimethylaminoazobenzene. Kensler, C. J., *et al.,* 585—ab
Ricca, R. A. *See* Lucké, B., 709, 766—ab
Richter, H., 834—ab
Riegel, B. *See* Brues, A. M., 815, 825—ab
Riley, A., 340—ab
Riley, J. F., 169—ab, 506—ab
Rinehart, B. A. *See* Rinehart, D. A., 911—ab
Rinehart, D. A., *et al.,* 911—ab
Ritchie, G., 980—ab
River, L., *et al.,* 590—ab
Riwchun, M. H., *et al.,* 913—ab
Rizzolo, P. J., 175—ab
Robinson, A. M. *See* Badger, G. M., 166—ab
Robinson, G. A., 911—ab
Robinson, J. M. *See* Stone, R. S., 679—ab
Robinson, W. L. *See* Stecker, J. F., 589—ab
Robson, J. M. *See* Bonser, G. M., 78—ab
—— *See* Schönberg, A., 79—ab
Rochester General Hospital, malignant tumors of kidney. Gaspar, I. A., 836—ab
Rodríguez, F. *See* Lipschütz, A., 582—ab
Roe, E. *See* Boyland, E., 505—ab
Roentgen. *See also* X-ray
Roentgen therapy, malignancies, protracted. Rinehart, D. A., *et al.,* 911—ab

—— —— ultradeep, 400,000 volts, results in carcinomas of prostate. Roffo, A. E., *et al.*, 677—ab
—— —— advanced malignancy. Meigs, J. V., 676—ab
Roentgenologic aspects, metastases. Hubeny, M. J., *et al.*, 511—ab
Roffo, A. E., *et al.*, 677—ab
Roffo, A. E., Jr., 677—2 ab
Roffo, A. H., 169—ab, 173—ab, 581—ab, 588—ab, 669—ab
Rohdenburg, G. L. The effect of lowered atmospheric pressure on spontaneous tumors in mice, 310, 336—ab
—— The glucose tolerance test in its relation to cancer, 311, 437—ab
Rondoni, P., 173—ab, 831—ab
Rosahn, P. D., 94—ab
—— *See* DeSanto, D. A., 843—ab
Rosen, S. H. *See* Marine, D., 78—ab, 671—ab
Rosenthal, L. M. *See* Friedell, H. L., 837—ab
Rosenwasser, H., 834—ab
Rosh, R., 257—ab
Ross, D. E., 92—ab
Ross, M., and R. I. Dorfman. An abortifacient substance in human urines, 158, 173—ab
—— **and** —— The urinary excretion of estrogens and androgens by women with carcinoma of the breast, 52, 88—ab
Rous agent, chicken tumor, purified, antigenic nature. Barrett, M. K., 583—ab
—— and Fujinami viruses, in chicks, hemorrhagic disease. Duran-Reynals, F., 80—ab
—— sarcoma I, transmissible agent, precipitation with basic proteins. Shemin, D., *et al.*, 252—ab
—— —— virus, protection of chick against, by serum from adult chickens. Duran-Reynals, F., *et al.*, 427—ab
—— —— —— age susceptibility of ducks, variation of virus in duck. Duran-Reynals, F., 826—ab
Rozynek, M., 675—ab
Rubenfeld, S., 86—ab, 678—ab
—— *See* Kaplan, I. I., 91—ab
Rudder, F. F. *See* Davison, T. C., 835—ab
Rusch, H. P., *et al.*, 334—ab
—— **and B. E. Kline.** The inhibition of phospholipid oxidation by carcinogenic and related compounds, 465, 509—ab, 749*
—— *See* Deutsch, H. F., 818, 825—ab
—— *See* Kohman, T. P., 767—ab
—— *See* Miller, J. A., 699, 768—ab
Russ, S., *et al.*, 172—ab
Russell, W. O. *See* Munro, D., 770—ab
Ryan, J. F. *See* Schattenberg, H. J., 841—ab
Ryder, H. W. *See* Bunting, H., 173—ab

Sachs, M. D., 678—ab
Sachs, P. M. *See* Sachs, W., 86—ab
Sachs, W., *et al.*, 86—ab
Safir, S. R. *See* Bachmann, W. E., 668—ab
Saint, J. H. *See* Burtness, H. I., 848—ab
Sala, A. M. *See* Auster, L. S., 88—ab
Salamander, albino, use in urinary diagnosis. Nakamura, H., *et al.*, 85—ab
Salicylate, methyl, and benzene, as solvents for methylcholanthrene, effect on carcinogenic action. Burdette, W., *et al.*, 939, 975—ab
Salinger, S., 678—ab
Salivary, gland, endocrines, and lymph nodes, experimental tumors. Franseen, C. C., J. C. Aub, and C. L. Simpson, 489, 505—ab
—— —— adenoma. Škorpil, F., 839—ab
—— —— treatment of tumors by radical excision. Janes, R. M., 838—ab
—— —— tumors. Singleton, A. O., *et al.*, 839—ab
Sall, R. D., *et al.*, 77—ab
Salmon, U. G. *See* Geist, S. H., 169—ab
Salter, W. T., I. T. Nathanson, and H. Wilson. Experimentally induced benignancy of neoplasm. V. The influence of hormones on the host's resistance to implanted neoplasm, 60, 79—ab
Salter, W. T. *See* Craig, F. N., 751*, 869, 908—ab
—— *See* Muus, J., 671—ab
Sammartino, R. *See* Arenas, N., 339—ab
—— *See* Elizalde, P. I., 342—ab
Samson, P. C., *et al.*, 841—ab
Sano, M. E., *et al.*, 86—ab, 916—ab
Saphir, O., 836—ab
—— **M. Appel, and A. A. Strauss.** Growth of Brown-Pearce carcinoma in the anterior chamber of the eyes of tumor-immune rabbits, 545, 586—ab
—— *See* Appel, M., 672—ab
Sarcogenesis, and castration. Woglom, W. H., 671—ab
—— —— necrosis. Woglom, W., 906—ab
Sarcoidosis, bronchial involvement. Benedict, E. B., *et al.*, 839—ab
Sarcoma, dibenzanthracene-induced, immunity. Lewis, M. R., 84—ab
—— spindle cell, interrelation with carcinoma of skin. Strong, L. C., 572, 584—ab
—— subcutaneous tissue. Rizzolo, P. J., 175—ab
—— tissue culture, colonies, from tumor induced by dibenzanthracene. Jacoby, F., 174—ab
Sauer, H. R. *See* Herger, C. C., 914—ab
Savage, J. L. *See* Davenport, H. A., 821, 825—ab
Saxton, J. A., Jr. The relation of age to the occurrence of adenoma-like lesions in the rat hypophysis and to their growth after transplantation, 277, 332—ab
Scannell, R. C., 912—ab
Scarff, J. *See* Stookey, B., 433—ab
Schaaf, R., *et al.*, 93—ab
Schabad, L. M. *See* Kleinenberg, H. E., 76—ab, 853, 905—ab
Schaefer, A. *See* Leichner, W., 436—ab
Schajowicz, F. *See* Pique, J. A., 177—ab
—— *See* Valls, J. E., 177—ab
Schattenberg, H. J., *et al.*, 841—ab
Scheele, H. H. *See* Thompson, H. E., 913—ab
Scheele, L. A. *See* Cowie, D. B., 910—ab
Scheffey, L. C., 914—ab
Scheinker, I., 833—ab
Schenk, S. G., 836—ab
—— *See* Howes, W. E., 915—ab
Scherer, H. J., 433—ab
Schiller, W., *et al.*, 257—ab
Schindler, R., 92—2 ab, 516—ab, 841—ab
Schlack, C. A. *See* Yando, A. H., 341—ab
Schlicke, C. P. *See* Mayo, C. W., 918—ab
Schlossberg, R., 344—ab
Schlumberger, H. *See* Lucké, B., 255—2 ab
Schmidt, E. R., *et al.*, 432—ab
Schmitz, H. E., *et al.*, 678—ab, 681—ab
Schmitz, R. L. *See* Brunschwig, A., 85—ab, 434—ab, 515—ab
Scholl, A. J., 90—ab
Schönberg, A., *et al.*, 79—ab
Schoregge, C. W., 836—ab
Schramm, G., *et al.*, 583—ab
Schrek, R., 680—ab
Schwannoma of the small intestine. Colillas, D., *et al.*, 257—ab
Schwartz, C. W., 92—ab, 175—ab
Schweiger, L. R., *et al.*, 92—ab
Scott, A. T. *See* Gall, E. A., 846—ab
Scott, G. M. *See* Russ, S., 172—ab
Scott, L. D. *See* Rubenfeld, S., 678—ab
Seaborg, G. T., 172—ab
Sealy, W. C., 584—ab
Searight, W., 340—ab
Sedimentation rate, erythrocytes, maintenance in vitro in malignant tumors and Hodgkin's disease. Feldman, H., 93—ab
—— —— in prognosis of irradiation of cancer patients. Jacoby, P., *et al.*, 911—ab
Segal, M. *See* Loewenberg, S. A., 841—ab
Segi, M. *See* Naito, K., 588—ab
Selbie, F. R., 909—ab
Seligman, A. M. *See* Shear, M. J., 423—ab

Selle, W. A., P. Brindley, and J. W. Spies. The production of tumors by transplantation of normally appearing liver cells from animals previously injected with methylcholanthrene, 618, 669—ab, 737*
Senger, F. L., *et al.,* 837—ab
Senturia, H. R., 836—ab
Serum albumin, horse, conjugates with benzanthryl isocyanates. Creech, H. J., *et al.,* 329—ab
—— —— iodinated, thyroidal activity. Muus, J., *et al.,* 671—ab
—— carcinoma, hydrolysis of dipeptides. Ura, S., 585—ab
—— organ, and tumor protein, nephelometric reaction to heat. Rondoni, P., 831—ab
Sex hormones, effect on cells in tissue culture. Von Haam, E., *et al.,* 79—ab
—— —— lymphomatosis in fowls. Marine, D., *et al.,* 671—ab
—— —— relation to tumors of female reproductive system. Greene, R. R., *et al.,* 835—ab
—— influence on iron assimilation in rat. Kletzien, S. W., 736*
—— mice, influence on acquired resistance to a transplantable sarcoma. Gross, L., 880, 907—ab
Shapiro, A. L., 980—ab
Sharp, G. S., 678—ab
Sharpe, W. S., *et al.,* 842—ab
Sharpless, G. R., 254—ab
Shaw, D. T. *See* Taylor, G. W., 433—ab
Shaw, H. W. *See* Erdmann, J. F., 340—ab
Shay, H. *See* Gershon-Cohen, J., 828—ab
Shear, M. J., *et al.,* 423—2 ab
—— Effect of a concentrate from B. prodigiosus filtrate on subcutaneous primary induced mouse tumors, 731*
—— **H. Kahler, and F. C. Turner.** Properties of the fraction of B. prodigiosus which produces hemorrhage in mouse sarcomas, 741*
—— *See* Sall, R. D., 77—ab
Sheehan, J. F. *See* Schmitz, H. E., 678—ab
Shelden, C. H. *See* Craig, W. McK., 769—ab
Sheldon, W. H., 681—ab
Shemin, D., *et al.,* 252—ab
—— **E. E. Sproul, and J. W. Jobling.** Studies on the transmissible agent of Rous chicken sarcoma I. Isolation of virus from basic protein-virus complex, 729*
—— *See* Craig, P. E., 917—ab
Shimkin, M. B., *et al.,* 77—ab, 79—ab, 250—2 ab, 426—ab, 669—ab, 671—ab, 906—ab, 976—3 ab
—— **and G. B. Mider.** Carcinogenesis in guinea pig, 751*
—— *See* Andervont, H. B., 250—ab, 422—ab
—— *See* Bryan, W. R., 905—ab
—— *See* Lorenz, E., 423—ab
Shinkawa, T. *See* Fukukei, I., 86—ab
Shively, F. H., Jr. *See* Higgins, C. C., 837—ab
Shope fibroma virus, degenerative and neoplastic lesions in newborn rabbits. Duran-Reynals, F., 80—ab
—— papilloma, liver necrosis, hyperthyroidism, in rabbits. Sealy, W. C., 584—ab
Shore, B. R., 88—ab
Shoulder region, tumors, treatment by interscapulothoracic amputation. Strode, J. E., *et al.,* 588—ab
Shukoff, R. I. *See* Peacock, P. R., 174—ab
Sicher, G. *See* Leuchtenberger, R., 423—ab
Siebel, J. W. *See* Tuta, J. A., 682—ab
Sigmoid, carcinoma, and advantages of Devine colostomy. Hogeboom, G. W., 513—ab
Silberberg, M., *et al.,* 426—3 ab, 430—ab
Silberberg, R. *See* Silberberg, M., 426—3 ab, 430—ab
Silberblatt, J. M. *See* Hyams, J. A., 914—ab
Silica, precipitated, and iron oxide, effects on incidence of primary lung tumors in mice. Campbell, J. A., 328—ab
Silverman, I. *See* Donaldson, S. W., 675—ab
—— *See* Tenopyr, J., 256—ab
Simmonds' disease and chromophobe pituitary adenoma. Moran, T. J., *et al.,* 917—ab
—— —— pernicious anemia, bioassay of chromophobe adenoma. Foster, M. A., *et al.,* 917—ab
Simpson, C. L. *See* Franseen, C. C., 393, 422—ab, 489, 505—ab
Simpson, F. E., *et al.,* 678—ab, 912—ab
Singer, J. J., 344—ab
Singleton, A. O., *et al.,* 839—ab
Sinus, frontal, primary osteoma. Teed, R. W., 845—ab
Skarzynski, B. *See* Von Euler, H., 173—ab, 586—ab
Skeletal sarcoma, treatment by irradiation. Brunschwig, A., *et al.,* 93—ab
Skin and lip, treatment of large carcinomas by irradiation and surgery. Hunt, H. B., 86—ab
—— cancer and occupation in Texas, relationship, review of 1569 verified lesions in 1190 patients. Phillips, C., 592—ab
—— —— from burns, leg. Fukukei, I., *et al.,* 86—ab
—— —— in relation to multiple malignant growths. Warren, S., *et al.,* 86—ab
—— —— irradiation treatment. Bogart, F. B., 256—ab
—— —— 1,434, observations based on study. Phillips, C., 680—ab
—— —— radiation therapy. Widmann, B. P., 679—ab
—— carcinoma. Schrek, R., *et al.,* 680—ab
—— color and skin cancer. Taussig, J., *et al.,* 86—ab
—— epithelioma, results of therapy. Warren, S., *et al.,* 912—ab
—— human, patent pores, electrophoretic demonstration. Abramson, H. A., *et al.,* 831—ab
—— Kangri-burn cancer. Neve, E. F., 912—ab
—— malignant conditions, comparison of clinical and pathologic diagnoses. Torrey, F. A., *et al.,* 589—ab
—— —— growths, metastatic underlying acanthosis nigricans. Nicholas, L., 912—ab
—— —— melanoma. Peller, S., 538, 591—ab
—— —— tumors, treatment. Pack, G. T., *et al.,* 588—ab
—— metastatic carcinoma, inflammatory. Reuter, M. J., *et al.,* 912—ab
—— neoplastic responses in hairless rats and haired litter mates by ultraviolet rays. Hueper, W. C., 402, 428—ab, 742*
—— tumors, mice, influence of solvent on rate of induction. Crabtree, H. G., 75—ab
Škorpil, F., 839—ab
Skull, and intracranial, epidermoidomas. Schwartz, C. W., 175—ab
—— angioma. Abbott, W. D., 435—ab
—— osteomas. Schwartz, C. W., 92—ab
Slye, M. Incidence of lung tumors in five related strains of mice and their hybrid derivatives, 740*
—— *See* Wells, H. G., 259, 337—ab, 752*
Smith, E., *et al.,* 837—ab
Smith, E. C., *et al.,* 681—ab
Smith, F. R., 339—ab, 683—ab
Smith, J. W. *See* Gotshalk, H. C., 90—ab
Smith, L. W., 588—ab
—— *See* Sano, M. E., 86—ab
Smith, M. K., 437—ab
Smith, T. E., 92—ab
Smith, W. M. *See* Schindler, R., 841—ab
Snell, G. D., *et al.,* 332—ab
—— *See* Fekete, E., 336—ab
Sodium benzoate, growth-inhibition, effect of diet. White, A., 831—ab
Sodium thymonucleate, effects of ultraviolet radiation. Hollaender, A., *et al.,* 977—ab
Soiland, A., 678—ab
Solomon, C. *See* Lisa, J. R., 434—ab
Solvent, influence on rate of induction of skin tumors in mice. Crabtree, H. G., 75—ab
Sonders, B. F., 834—ab
Souder, C. G. *See* Peller, S., 510—ab
Soxenson, F., 339—ab
Spear, F. G. *See* Gray, L. H., 334—ab
Spencer, F. R., *et al.,* 845—ab
Spencer, G. A., 912—ab
Spencer, R. R., *et al.,* 251—ab, 423—ab
—— **and M. B. Melroy.** Behavior of paramecium multimicronucleatum after long adaptation to methylcholanthrene, 748*
—— *See* Voegtlin, C., 94—ab
Sperm, sea-urchin, as biological test object in roentgen dosimetry. Miwa, M., *et al.,* 828—ab

Spermatic cord, malignant mixed tumor. Dreyfuss, M. L., *et al.,* 89—ab
—— —— tumors. Neal, M. P., *et al.,* 683—ab
Spicer, D. D. *See* Orbison, J. L., 891, 907—ab
Spiegel, A., 333—2 ab
Spies, J. W. *See* Childs, W. A., 741*
—— *See* Selle, W. A., 618, 669—ab, 737*
—— *See* Woelfel, W. D., 748*
Spinal canal, unusual tumors and tumor-like lesions, diagnosis. Meredith, J. M., 770—ab
—— cord, teratoma. Masten, M. G., 87—ab
—— —— tumor, early diagnosis. Walker, A. E., 833—ab
—— —— tumors of cervical portion. Craig, W. McK., *et al.,* 769—ab
—— —— —— intramedullary, myelographic diagnosis. Walker, A. E., *et al.,* 679—ab
Spinal ganglia, albino rats, effect of x-ray radiation. Ma, W. C., *et al.,* 828—ab
Spine, cervical, hour glass tumors. Jelsma, F., 769—ab
—— malignant metastases, early diagnosis. Wolfson, S. A., *et al.,* 587—ab
—— primary reticulum cell sarcoma. Edwards, J. E., 843—ab
Spire, R. L. *See* Elward, J. F., 847—ab
Spleen and liver, tumors induced by carcinogenic hydrocarbons. Shear, M. J., *et al.,* 423—ab
—— —— lymph glands in mice used for carcinogenic experiments, cellular changes, especially giant cells of spleen. Parsons, L. D., *et al.,* 909—ab
—— extract, treatment of transplanted and spontaneous malignant tumors in mice. Lewisohn, R., *et al.,* 83—ab
—— neoplasms, primary. Goldberg, S. A., 93—ab
—— or yeast, extract, treatment of spontaneous breast adenocarcinomas in mice. Lewisohn, R., *et al.,* 336—ab
—— presence of principle stimulating growth, in blood and urine of cancerous individuals and during pregnancy. Roffo, A. H., 173—ab
—— primary malignant tumors, and lymphosarcoma. Bonney, C. W., 178—ab
Spotoft, J. *See* Jacoby, P., 911—ab
Spratt, C. N., 834—ab
Sprince, H. *See* Burk, D., 732*
Sprong, A. A., 916—ab
Sproul, E. E. *See* Shemin, D., 252—ab, 729*
Stacy, W. T., *et al.,* 681—ab
Staderman, A. H. *See* Maher, P. P., 343—ab
Staining, intravital, Evans blue, malignant tumors in man. Brunschwig, A., *et al.,* 85—ab
Stanley, W. M. *See* Miller, G. L., 583—ab
Stare, F. E. *See* Feinstein, R. N., 430—ab
Stasney, J. *See* Battle, J. D., Jr., 842—ab
Statistics. *See also* Heredity; Incidence; Mortality
Statistics, analysis of cases of carcinoma of cervix, Medical College of Virginia. Hoge, R. H., 913—ab
—— cancer, evaluation by correlation analysis. Jacobs, L. G., 591—ab
—— —— in the mentally ill. Peller, S., *et al.,* 178—ab
—— carcinoma of lung. Halpert, B., 900, 915—ab
—— disabling morbidity, and mortality from cancer among male employees of an oil refining company, 1933-38. Gafafer, W. M., 93—ab
—— incidence, cancer in Hainan. Bercovitz, N., 154, 178—ab
—— —— —— in Pittsburgh and Allegheny County, Pennsylvania, 1937, 94—ab
—— morbidity, diagnosis code for use in tabulating. Parran, T., *et al.,* 94—ab
—— mortality, cancer in New York City. Duffield, T. J., and M. Di Mario, 413, 438—ab
—— —— —— in North America. Apperly, F., 191, 258—ab
Stecker, J. F., *et al.,* 589—ab
Steele, R., *et al.,* 670—ab
—— **F. C. Koch, and P. E. Steiner.** The extraction of a carcinogenic fraction from human urine. Preliminary report, 614, 750*
Stein, J. J., 344—ab, 514—ab
Stein, K. F. *See* Williams, W. L., 831—ab
Steiner, P. E. The production of tumors with an extract from human liver, 750*
—— 251—ab, 258—ab
—— *See* Loosi, C. F., 753*
—— *See* Schindler, R., 841—ab
—— *See* Steele, R., 614, 670—ab, 750*
Steinkamm, E., 252—ab
Stekol, J. A., 254—ab
Stelling, F. H. *See* Pund, E. R., 847—ab
Stephens, H. B. *See* Goldman, A., 342—ab
Stephenson, C. S. *See* Peller, S., 178—ab, 510—ab
Stern, K., 432—ab, 832—ab
Stern, K. G. *See* Kirschbaum, A., 85—ab
—— *See* Tennant, R., 254—ab
Steroid excretion in cancerous and noncancerous persons; urinary estrogens. Pincus, G., and W. H. Pearlman, 970, 975—ab
Steroids, keto, urinary, extraction and spectrochemical assay. Talbot, N. B., *et al.,* 336—ab
—— ketonic, polarographic determination. Wolfe, J. K., *et al.,* 431—ab
—— particularly sex hormones biochemistry. Butenandt, A., 169—ab
—— urinary, a rapid extractor. Hershberg, E. B., *et al.,* 430—ab
Sterol, synthesis, by tumor-bearing rats. Norris, E. R., and E. E. Troescher, 410, 430—ab
Sterols, constitution, relationship with optical rotatory power. Bernstein, S., *et al.,* 505—ab
—— interactions with polycyclic hydrocarbons in mixed surface films at air-water surface. Davis, W. W., *et al.,* 167—ab
Stevens, A. R., *et al.,* 89—ab
Stevens, W. E., 89—ab
Stevenson, C. A., 683—ab
Stewart, C. D. *See* Stroud, S. K., 589—ab
Stewart, F. W. *See* Foote, F. W., Jr., 835—ab
Stewart, H. L., *et al.,* 90—ab, 516—ab
—— *See* Lorenz, E., 77—ab, 250, 423—ab, 743*
—— *See* Shear, M. J., 423—ab
Stickland, L. H. *See* Orr, J. W., 830—ab
Stilbestrol and estrone, carcinogenicity in mice. Shimkin, M. B., *et al.,* 79—ab
—— cholesterol pellets, induction of testicular tumors and other effects in strain C mice. Shimkin, M. B., *et al.,* 976—ab
—— experimental investigation on results of long-continued administration of large amounts. Steinkamm, E., 252—ab
—— mammary carcinomas in mice, oral administration. Shimkin, M. B., *et al.,* 426—ab
—— toxic and carcinogenic effects in C3H male mice. Shimkin, M. B., *et al.,* 976—ab
Stirling, W. C., *et al.,* 915—ab
Stock, M. F. *See* Walker, G. W., 839—ab
Stokes, H. B., 845—ab
Stoll, J. B., 515—ab
Stomach, achlorhydric, carcinomatous, a gastric secretory depressant in extracts. Brunschwig, A., *et al.,* 434—ab
—— adenomatous, rat, associated with heavy *Cysticercus fasciolaris* infestation. Blumberg, H., *et al.,* 422—ab
—— and colon, carcinoma, diagnosis. Oughterson, A. W., 979—ab
—— cancer, achlorhydria, experimental observations. Brunschwig, A., *et al.,* 515—ab
—— —— curability. Morrison, W. B., 590—ab
—— —— in the young. McNeer, G., 590—ab
—— —— results of surgery. Meyer, H. Willy, 736*
—— —— some factors influencing curability. Mullen, T. F., 435—ab
—— carcinoma, associated with pernicious anemia. Nessler, A. B., 514—ab
—— —— classification. Schindler, R., *et al.,* 841—ab
—— —— early diagnosis. Abrahamson, R. H., *et al.,* 91—ab
—— —— early diagnosis and prognosis. Schindler, R., 92—ab
—— —— experimental. Klein, A. J., *et al.,* 515—ab
—— —— in situ, histogenesis of malignant ulcers. Mallory, T. B., 91—ab
—— —— of cardiac end. Garlock, J. H., 841—ab

—— —— perforation. Haines, C., 841—ab
—— —— review of cases at Mayo Clinic since 1908. Walters, W., 435—ab
—— —— symptoms and gastric ulcer. Gray, H. K., 91—ab
—— carcinomatous, peptic activity of achlorhydric human gastric juices. Rasmussen, R. A., *et al.*, 435—ab
—— cardia, carcinoma. Bernstein, A., 841—ab
—— early cancer, a study of 1,299 resected ulcers and 2,408 cancers. MacCarty, W. C., Sr., 536, 590—ab, 730*
—— exogastric pedunculated myosarcoma. Platt, O. R., *et al.*, 514—ab
—— fore, rats, choline and epithelial hyperplasia. Sharpless, G. R., 254—ab
—— ganglioneuroma and von Recklinghausen's disease. Moene, I., 435—ab
—— gastroscopy, early diagnosis of cancer, other methods compared. Schindler, R., 516—ab
—— hyperplastic and neoplastic lesions in mice. Stewart, H. L., 516—ab
—— leiomyosarcoma, perforation. Mass, M., *et al.*, 91—ab
—— mice, squamous cell carcinoma and other lesions following oral administration of methylcholanthrene and dibenzanthracene. Lorenz, E., *et al.*, 250—ab
—— neurilemmoma, with peptic ulcer. Fuller, R. H., 915—ab
—— rat's, relation of diet to benign neoplasia (ulcero-papillomas). Brunschwig, A., and R. A. Rasmussen, 371, 429—ab, 749*
—— sarcoma. Ross, D. E., 92—ab
—— nonepithelial tumors, primary. Yardumian, K. Y., *et al.*, 591—ab
—— ulcers, clinical material for investigation. Reid, M. R., 518—ab
Stone, R. S., *et al.*, 678—ab, 679—ab
—— *See* Newell, K. R., 338—ab
Stookey, B., *et al.*, 433—ab
Storey, C. F., 435—ab
Stout, A. P. *See* Engle, E. T., 85—ab
Stout, H. A. *See* Lamb, J. H., 93—ab
Stowell, R. E. *See* Carruthers, C., 724, 766—ab
—— *See* Cramer, W., 849, 905—ab
Strauss, A. A. *See* Appel, M., 672—ab
—— *See* Saphir, O., 545, 586—ab
Strayer, A. M. *See* Patterson, D. C., 683—ab
Strode, J. E., *et al.*, 588—ab
Strong, L. C. The effect of heptyl aldehyde-sodium bisulfite on spontaneous tumors of the mammary gland in mice, 473, 510—ab
—— A genetic analysis of the induction of tumors by methylcholanthrene. II. The influence of spindle cell sarcoma and of carcinoma of the skin upon each other, 572, 584—ab, 738*
—— **and W. L. Williams.** A genetic analysis of the induction of tumors by methylcholanthrene. III. Local and remote induction of carcinoma of the mammary gland, 886, 907—ab
—— 80—ab, 907—ab
—— *See* Blaisdell, J. S., 283, 331—ab
—— *See* Burdette, W. J., 939, 975—ab
—— *See* Figge, F. H. J., 779, 828—ab
—— *See* Kirschbaum, A., 255—ab, 785, 827—ab
Stroud, S. K., *et al.*, 589—ab
Struve, W. S. *See* Bachmann, W. E., 505—ab
Stryker, W. A., 91—ab
Stuckenhoff, H. E. *See* Zuckerman, S. S., 93—ab
Sturgis, M. C. *See* Macfarlane, C., 258—ab
Sturm, E. Induced resistance to a transplantable lymphatic leukemia in rats, 627, 675—ab
—— *See* Murphy, Jas. B., 379, 431—ab, 477, 506—ab, 609, 669—ab
Stutsman, A. C. *See* Arbuckle, M. F., 341—ab
Succinoxidase system, inhibition by extracts of tumor and normal tissues. Elliott, K. A. C., 82—ab
Sugarbaker, E. L. *et al.*, 93—ab
—— *See* Martin, H. E., 90—ab, 838—ab
Sugiura, K., 670—ab, 907—ab
——— **and C. J. Kensler.** Experimental liver cancer and its inhibition by various food substances, 745*
—— **and C. P. Rhoads.** Experimental liver cancer in rats and its inhibition by rice-bran extract, yeast, and yeast extract, 3, 83—ab
—— *See* Burk, D., 733*
—— *See* Kensler, C. J., 585—ab
Sulcus tumor. Breslin, L. J., 839—ab
Sulfanilamide, carcinogenic action in mice. Haerem, A. T., 329—ab
—— production of tumors in rats. Haerem, A. T., 744*
Sulfhydryl and cysteine derivatives of carcinogenic hydrocarbons. Wood, J. L., *et al.*, 330—ab
—— compounds and wound repair. Riley, J. F., 169—ab
Sulfur, dietary organic, effect on reaction of dilute brown mice to methylcholanthrene. Mider, G. B., and J. White, 734*
Sulkowitch, H. *See* Fraser, R. W., 509—ab
Sunderland, D. A., *et al.*, 588—ab
Sunlight and cancer of skin. Blum, H. F., 428—ab
Suntzeff, V., *et al.*, 507—ab
—— **M. Moskop Kirtz, H. T. Blumenthal, and L. Loeb.** A comparison between the incidence of mammary gland carcinoma and cancer age in mice injected with estrogen and in noninjected mice of different strains, 446
—— *See* Loeb, L., 439, 507—ab
Survival, in mice with induced subcutaneous sarcomas. Shimkin, M. B., 906—ab
Susceptibility, mice, hybrid, to tumors. Andervont, H. B., 252—ab
—— —— to spontaneous mammary tumors, influence of paternal parent. Andervont, H. B., *et al.*, 977—ab
Sweat gland tumors, myoepithelium. Sheldon, W. H., 681—ab
Swickley, I. B. *See* Yardumian, K. Y., 591—ab
Symmers, D., 178—ab
Symmer's disease, treatment by radiation. Rubenfeld, S., 86—ab
Synovial sarcoma. Leichner, W., *et al.*, 436—ab
—— —— in joints, bursae, and tendon sheaths. DeSanto, D. A., *et al.*, 843—ab
Synovioma, diagnosis, x-ray. Lewis, R. W., 93—ab
—— malignant. Hutchinson, C. W., *et al.*, 177—ab
Szabo, I. *See* Lipschütz, A., 425—ab

Tadros, W. *See* Schönberg, A., 79—ab
Takizawa, N., 78—ab
Talbot, N. B., *et al.*, 336—ab
Talbott, J. H., 588—ab
Tanaka, A., *et al.*, 79—ab
Tanaka, J. *See* Nakamura, H., 85—ab
Tannenbaum, A., 83—ab
Tannhauser, S., 847—ab
Tarlov, I. *See* Penfield, W., 833—ab
Taussig, F. J. Prevention of cancer of the vulva, 735*, 901, 914—ab
Taussig, J., *et al.*, 86—ab
Taylor, G. W., *et al.*, 433—ab
Taylor, H. C., Jr., *et al.*, 337—ab
Tea, carcinogenic tar. Roffo, A. H., 581—ab
Teahan, R. W., 679—ab
Teal, P. R. *See* Tollman, J. P., 845—ab
Teed, R. W., 845—ab
Teitelbaum, M. *See* Stookey, B., 433—ab
Teleroentgentherapy, 600,000 volts. Roffo, A. E., Jr., 677—ab
—— ultradeep, with radiation produced at 400,000 volts, results. Roffo, A. E., Jr., 677—ab
Temperature. *See also* Climate; Hypothermia
Temperature, effect on growth of frog carcinoma. Lucké, B., *et al.*, 255—ab
—— environmental, and spontaneous tumors in mice. Fuller, R. H., E. Brown, and C. A. Mills, 130, 171—ab
—— low body, and B avitaminosis, influence on growth sarcoma 180. Bischoff, F., and M. L. Long, 217, 254—ab
—— —— treatment of malignancy. Alter, N. M., 587—ab

—— reduced, effect upon growth and metabolic changes sarcoma 180 grown in vivo. Goldfeder, A., 220, 253—ab
—— —— therapy. Newman, M. K., *et al.*, 910—ab
—— reduction, local and general, in malignancy. Jones, A. J., *et al.*, 587—ab
Temperatures, body, high and low, effect on growth of irradiated mouse sarcoma 180. Sugiura, K., 907—ab
Tenenbaum, J., 848—ab
Tennant, R., *et al.*, 83—ab, 254—ab
—— *See* DeSanto, D. A., 843—ab
—— *See* Hirshfeld, J. W., 80—ab
—— *See* Liebow, A. A., 585—ab, 682—ab
Tenopyr, J., *et al.*, 256—ab
Templeton, R. D. *See* Ferguson, R. L., 78—ab
Teratoma, intracranial congenital. Denes, J., 769—ab
—— and ovarian dermoids, twins, relationship. Edmonds, H. W., and J. W. Hawkins, 896, 909—ab
—— benign, of testicle. Stevens, W. E., 89—ab
—— neck, in newborn. Chapman, F. D., 918—ab
—— ovary, associated with malignant chorio-epithelioma and carcinoma. Oda, T., *et al.*, 88—ab
—— pineal body. Lichtenstein, B. W., 917—ab
—— right parotid gland, with metastasis to sternum and second rib left. Livingston, S. K., 90—ab
—— spinal cord. Masten, M. G., 87—ab
—— testicular, metastasizing to spine. Vosburgh, R. K., *et al.*, 914—ab
—— testis of rooster, induced by zinc nitrate. Falin, L. I., *et al.*, 580—ab
Terry, T. L., 834—ab
Tessmer, C. F. *See* Gotshalk, H. C., 90—ab
Testicle, benign teratomas. Stevens, W. E., 89—ab
—— chorioma. McNamara, F. P., *et al.*, 914—ab
—— dysgerminoma. Kirshbaum, J. D., *et al.*, 89—ab
—— interstitial cell tumor. Huffman, L. F., 684—ab
—— malignant tumors. Ormond, J. K., *et al.*, 684—ab
Testis, ectopic, tumorigenesis. Hamilton, J. B., 974*
—— embryoma, classification of neoplasms of testis. Melicow, M. M., 89—ab
—— papillary adenocarcinoma. Kashikura, K., 914—ab
—— seminoma and teratoma. McDonald, J. R., *et al.*, 340—ab
—— teratoma. Barringer, B. S., *et al.*, 683—ab
—— —— metastasizing to spine. Vosburgh, R. K., *et al.*, 914—ab
—— —— rhabdomyosarcomatous pulmonary metastases. Bosse, M. D., 89—ab
—— tumors and other effects of stilbestrol-cholesterol pellets in mice. Shimkin, M. B., *et al.*, 976—ab
—— —— malignant, choriogenic gynecomastia. Gilbert, J. B., 89—ab
—— —— —— in ectopic testes. Gilbert, J. B., *et al.*, 89—ab
—— —— 142 cases of primary neoplasms. Gordon, G., 89—ab
—— —— produced by estrogens. Bonser, G. M., *et al.*, 78—ab
Testosterone and progesterone, prevention of experimental uterine and extrauterine fibroid. Lipschütz, A., *et al.*, 582—ab
—— inhibition of lactation. Fleischer, A. J., *et al.*, 835—ab
—— metabolized to androsterone. Dorfman, R. I., *et al.*, 429—ab
—— propionate, action, in endometriosis. Wilson, L., 588—ab
—— —— effect on mammary tumors in mice of C3H strain. Jones, E. E., 787, 825—ab
Thayer, S. A. *See* Doisy, E. A., Jr., 670—ab
Therapy and nuclear physics; preliminary report, new method for treatment of leukemia and polycythemia. Lawrence, H. R., 256—ab
—— electrosurgery. de Cholnoky, T., 910—ab
—— hibernation. Newman, M. K., *et al.*, 910—ab
—— improved, possibilities for cancer patients. Voegtlin, C., 588—ab
Thiamin, effect on glycolysis of Walker sarcoma 319. Beck, F. F., *et al.*, 251—ab
Thibaudeau, A. A. *See* Burke, E. M., 753*
Thomason, T. H., 836—ab
Thompson, F. G. *See* Stacy, W. T., 681—ab
Thompson, G. J., *et al.*, 90—ab, 683—ab
—— *See* McDonald, J. R., 837—ab
Thompson, H. E., *et al.*, 913—ab
Thompson, J. A. *See* Maver, M. E., 910—ab
Thompson, J. S. *See* Simpson, F. E., 678—ab
Thompson, J. W. *See* Greenstein, J. P., 430—ab
—— *See* Maver, M. E., 673—ab, 751*
—— *See* Morris, H. P., 432—ab
Thorax, wall, myoblastoma. Grayzel, D. M., *et al.*, 845—ab
Thorium dioxide, tumors in mice. Andervont, H. B., *et al.*, 422—ab
Thorlakson, P. H. T., *et al.*, 515—ab
Throat and nose tumors. New, G. B., *et al.*, 839—ab
Thymoma, associated with myasthenia gravis. Aronson, S. F., 918—ab
—— unusual case. Kenwell, H. N., *et al.*, 840—ab
Thymonucleic acid, depolymerization by an enzyme system. Greenstein, J. P., *et al.*, 908—ab
Thyroid, aberrant, papillary adenoma. Smith, M. K., 437—ab
—— adenocarcinoma, papillary, diagnosis and curability. Wetherell, F. S., 918—ab
—— and adrenal, periodicity of activity influenced by time of feeding, in guinea pigs. Blumenthal, H. T., 424—ab
—— —— calcium therapy, effects on growth of sarcoma transplants in thyroparathyroidectomized rats. Ferguson, R. L., *et al.*, 78—ab
—— cancer. Watson, W. L., *et al.*, 93—ab
—— carcinoma, metastases in skull. Turner, O., *et al.*, 918—ab
—— coexisting carcinomas, and aberrant thyroid. Touroff, A. S. W., 437—ab
—— effect on glycolysis of Walker sarcoma 319. Beck, F. F., *et al.*, 251—ab
—— exogenous tumors. Mayo, C. W., *et al.*, 918—ab
—— in 166 cases of acromegaly. Davis, A. C., 918—ab
—— malignancy, diagnosis. Craig, P. E., *et al.*, 917—ab
—— tissue, lateral aberrant, tumors. Geer, W. A., 437—ab
Thyroidal activity of iodinated serum albumin. Muus, J., *et al.*, 671—ab
Tibia, hemangioma, metastasis to popliteal artery. Fienberg, R., *et al.*, 843—ab
Tigert, H. M., 683—ab
Tissue culture as a diagnostic aid in the identification of atypical tumors. Sano, M. E., *et al.*, 86—ab
—— —— Brown-Pearce carcinoma. Favorite, G. O., *et al.*, 174—ab
—— —— colonies of sarcomatous fibroblasts from tumor induced by dibenzanthracene. Jacoby, F., 174—ab
—— —— effect of x-rays on cells. Lasnitzki, I., 172—ab
—— —— fibroblasts, transformation to malignancy. Gey, G. O., 737*
—— —— hormones, effect on growth of cells. Von Haam, E., *et al.*, 79—ab
—— —— melanotic tumors of fish compared with mammalian melanoma cell types. Grand, C. G., *et al.*, 675—ab
—— —— technic, desiccated chick embryo. Peacock, P. R., *et al.*, 174—ab
—— —— tumors, at 24 hours. Grace, E. J., 675—ab
Tissue cultures, actions of colchicine and of ethylcarbylamine. Tennant, R., *et al.*, 83—ab
—— —— macromolecular, effect on growth rate of mouse fibroblasts. Tennant, R., *et al.*, 254—ab
Tissues, human, carcinogenic extracts. Kleinenberg, H. E., *et al.*, 76—ab, 905—ab
—— —— carcinogens extracted. Hieger, I., 76—ab, 329—ab
—— tumor, antigens associated with sedimentable material. Furth, J., *et al.*, 431—ab
Tobacco, and cancer, blood alteration in rabbits with carcinomas induced by tobacco tar. Roffo, A. H., *et al.*, 669—ab
—— —— nicotine, effect on tissue cultures. Polak, M., 330—ab
—— chewing, in cancer of mouth. Friedell, H. L., *et al.*, 837—ab
—— mosaic virus, acetyl and phenylureido derivatives. Miller, G. L., *et al.*, 583—ab
—— —— —— effect of ketene and phenylisocyanate. Schramm, G., *et al.*, 583—ab
—— tars, production of tumors. Flory, C. M., 262, 329—ab, 744*

Tollman, J. P., *et al.,* 845—ab
Tongue, cancer, treated with lead radon tubules. Simpson, F. E., *et al.,* 678—ab
—— carcinoma, with metastases to lungs. Ehrlich, D. E., *et al.,* 837—ab
—— lipoma. Halpert, B., 838—ab
Tonsil, cancer. Martin, H., *et al.,* 838—ab
—— —— diagnosis and treatment. Mattick, W. L., 838—ab
—— lymphosarcoma. Davis, E. D. D., 915—ab
—— —— primary. Cosco, N. P., *et al.,* 846—ab
Tooth and bone, benign neoplasia. Fish, E. W., 843—ab
Torrey, F. A., *et al.,* 589—ab
Touroff, A. S. W., 437—ab
Towne, L. E. *See* Aub, J. C., 737*
Traenkle, H. L., 86—ab
Transamination in tumors, fetal tissues, and regenerating liver. Cohen, P. P., and G. L. Hekhuis, 620, 672—ab
Transplanted tumors, mice, changes in electrodynamic field. Burr, H. S., 828—ab
Trauma and malignancy. Levinson, L. J., *et al.,* 909—ab
—— —— malignant tumor, etiologic relationship. Davis, H. H., 510—ab
Treatment, cancer of lip and mouth. Pfahler, G. E., 677—ab
Tripoli, C. J., *et al.,* 91—ab
Troescher, E. E. *See* Norris, E. R., 410, 430—ab
Trueblood, D. V., 433—ab
Tschetter, D. *See* Brunschwig, A., 93—ab
Tuberculosis, and cancer, topography of relative distribution. Cruickshank, D. B., 591—ab
—— and carcinoma of the lung. Hamilton, C. E., *et al.,* 90—ab
—— pulmonary, and cancer. Marano, A., *et al.,* 343—ab
Tuboi, S. *See* Tanaka, A., 79—ab
Tumor 15091A, in mice, incidence and development. Bunting, H., *et al.,* 173—ab
Turban tumors. Sachs, W., *et al.,* 86—ab
Turner, C. W. *See* Lewis, A. A., 55, 78—ab
Turner, F. C., 975—ab
—— *See* Greenstein, J. P., 430—ab
—— *See* Shear, M. J., 741*
Turner, O., *et al.,* 918—ab
—— *See* Gardner, W. J., 834—ab
Turner, O. A., *et al.,* 913—ab
Tuta, J. A., *et al.,* 682—ab
Twins, cancer of colon. Coll, J., *et al.,* 512—ab
—— identical, von Recklinghausen's disease. Loftis, E. L., 87—ab
—— —— with similar fibroid tumors. Walsh, G., *et al.,* 89—ab
—— monozygous and dizygous, tumors. Macklin, M. T., 258—ab
—— teratomas, and ovarian dermoids, relationship. Edmonds, H. W., and J. W. Hawkins, 896, 909—ab
Twombly, G. H., 426—ab
Tylec, L. L., 848—ab
Tyler, H. Y. *See* Craver, L. F., 846—ab

Ulcer, rodent, near eye, radium treatment. Charteris, A. A., 86—ab
Ulcero-papilloma, stomach, rat, effect of diet. Brunschwig, A., *et al.,* 371, 429—ab
Ulcers, gastric, use of clinical material for investigation. Reid, M. R., 515—ab
Ultraviolet absorption, cytoplasm, after therapeutic x- and gamma irradiation. Mitchell, H. S., 172—ab
—— light, mutation effects in Drosophila. Mackenzie, K., *et al.,* 508—ab
—— rays, carcinogenesis, wave length and energy. Rusch, H. P., *et al.,* 334—ab
Undernourishment, changes in cartilage and bone of immature female guinea pigs. Silberberg, M., *et al.,* 430—ab
Ura, S., 585—ab
Ureter, carcinoma, primary. Keen, M. R., *et al.,* 340—ab
—— —— primary. Pilcher, F., *et al.,* 837—ab
—— epithelioma, primary. Cook, E. N., *et al.,* 176—ab
Urethra, perineal, epidermoid carcinoma. Riley, A., 340—ab
Urinary tract, squamous cell changes and infection. Scholl, A. J., 90—ab
Urine and blood, cancerous patients and pregnancy, substances stimulating growth of spleen. Roffo, A. H., 173—ab
—— anti-estrus substance, from 4-year-old female. Zephiroff, P., *et al.,* 333—ab, 336—ab
—— cancer patients, carcinogens. Bowman, R. O., and H. R. Mottshaw, 308, 335—ab
—— human, abortifacient substance. Ross, M., and R. I. Dorfman, 158, 173—ab
—— —— extraction of carcinogenic fraction. Steele, R., F. C. Koch, and P. E. Steiner, 614, 670—ab, 750*
—— —— fraction causing fetus resorption in rats and mice. Ely, J. O., 85—ab
—— ketosteroids, colorimetric assay. Fraser, R. W., *et al.,* 509—ab
—— leukemia, specific substances. Miller, F. R., *et al.,* 436—ab
Urines, surface-active substances, adsorption, malignant neoplasia. Stern, K., 832—ab
Uterine and mammary tumors, spontaneous, in rabbit. Burrows, H., 175—ab
Uterus and vagina of rat, changes in connective tissue with advancing age. Wolfe, J. M., *et al.,* 426—ab
—— body, carcinoma, experience of Mayo Clinic for 24 years. Masson, J. C., *et al.,* 89—ab
—— —— mesodermal mixed tumors. Liebow, A. A., *et al.,* 682—ab
—— cancer. Tigert, H. M., 683—ab
—— —— diagnosis. Adair, F. L., 586—ab
—— —— —— and treatment. Scheffey, L. C., 914—ab
—— —— early symptoms and signs. Habermel, J. F., 914—ab
—— —— radium treatment. Hurdon, E., 676—ab
—— —— treatment advised by Connecticut Tumor Clinics. Miller, J. R., 683—ab
—— carcinoma, cytology. Kawanago, S., 89—ab
—— —— dangers and uses of radium in treatment. Sachs, M. D., 678—ab
—— —— metastatic. Charache, H., 914—ab
—— cervix, and vagina of rat, effect of age. Burack, E., J. M. Wolfe, W. Lansing, and A. W. Wright, 227, 251—ab
—— —— cancer, causes of death. Auster, L. S., *et al.,* 88—ab
—— —— —— clinical classification. Schmitz, H. E., *et al.,* 681—ab
—— —— —— experimental. Klenitzky, J. S., 422—ab
—— —— —— in hybrid mice following administration of estrogen. Allen, E., and W. U. Gardner, 359, 423—ab, 738*
—— —— —— irradiation. Cantril, S. T., *et al.,* 675—ab
—— —— —— pregnancy. Morse, A. H., 339—ab
—— —— carcinoma, and nativity. Smith, F. R., 339—ab
—— —— —— —— pregnancy. Stacy, W. T., *et al.,* 681—ab
—— —— —— factors influencing prognosis in treatment. Rosh, R., 257—ab
—— —— —— histological diagnosis. Meyer, R., 914—ab
—— —— —— in first three decades of life. Hall, N. D., 681—ab
—— —— statistical analysis, cases at Medical College of Virginia. Hoge, R. H., 913—ab
—— —— —— symposium, methods of irradiation treatment. Newell, K. R., *et al.,* 338—ab
—— —— —— treatment. Curtis, A. H., 681—ab
—— —— —— 200 cases treated with radium. Wilkins, G. C., 679—ab
—— —— —— x-ray of pelvis. Stone, R. S., *et al.,* 679—ab
—— —— squamous cell carcinoma. Barany, E., *et al.,* 88—ab
—— corpus, cancer, treatment. Crossen, H. S., 682—ab
—— fibroid. Plass, E. D., 683—ab
—— fibromyomas, treatment. Costolow, W. E., 340—ab
—— —— x-ray therapy. Lemos Ibañez, A., 511—ab
—— fundus, cancer, radium treatment. Fricke, R. E., *et al.,* 910—ab
—— —— carcinoma. Brindley, G. V., 340—ab
—— glandular cystic hyperplasia, produced by estrogen in castrated macaques. Cleveland, R., *et al.,* 581—ab
—— lipoma. Hall, D. P., 88—ab
—— pedunculated endometrial cyst. Levi, A. A., 682—ab
—— radiation in treatment of carcinoma. Arneson, A. N., *et al.,* 88—ab

—— sarcoma. Searight, W., 340—ab
—— —— Smith, F. R., 683—ab
—— treatment and sequelae. Newcomer, E., 677—ab
—— tumors in broad ligament. Ferrando, F. F., 176—ab
—— —— production in guinea pig by local implantation of estrogen pellets. Perloff, W. H., *et al.*, 425—ab
Utzino, S., *et al.*, 83—ab
Uvea, melanoma, malignant. Terry, T. L., 834—ab

Vadász, J., 832—ab
Vagina, adenosis, relation to primary adenocarcinoma. Plaut, A., *et al.*, 89—ab
Vagus sheath, perineural fibrosarcoma. Furrer, E. D., *et al.*, 769—ab
Valls, J. E., *et al.*, 177—ab
—— *See* Myerding, H. W., 844—ab
van Gulik, P. J., *et al.*, 253—ab
Van Hazel, W., 91—ab
Van Prohaska, J. *See* Brunschwig, A., 434—ab
Van Zandt, I. L., 842—ab
Vargas, L., Jr. *See* Lipschütz, A., 236, 332—ab, 425—3 ab, 507—ab, 575, 582—3 ab
Vassiliadis, H. C., 78—ab
Vaughn, A. M., 842—ab
Velazquez, J., *et al.*, 586—ab
Ventriculography, brain tumor. Peet, M. N., 432—ab
Vesell, M. *See* Lorber, H., 681—ab
Virginia, cancer control. Lehman, E. P., 980—ab
Virilism, adrenocortical syndrome. Mintz, N., *et al.*, 848—ab
Virus inclusions, blastogenic agents and ciliates. Mottram, J. C., 508—ab
—— influenza, and incidence of primary lung tumours in mice. Campbell, J. A., 170—ab
—— myxoma, neutralization by specific immune serum. Parker, R. F., *et al.*, 831—ab
—— Rous, in foreign species. Duran-Reynals, 729*
—— —— isolation from basic protein-virus complex. Shemin, D., E. E. Sproul, and J. W. Jobling, 729*
—— Shope fibroma, producing degenerative inflammatory or neoplastic effects in newborn rabbit. Duran-Reynals, F., 80—ab
—— tobacco mosaic, acetyl and phenylureido derivatives. Miller, G. L., *et al.*, 583—ab
—— V_2 rabbit carcinoma partnership with tumor cells. Kidd, J. G., 730*
Viruses and genes, determination of sizes by radiation methods. Lea, D. E., 170—ab
—— Rous and Fuginami, in chicks, hemorrhagic disease. Duran-Reynals, F., 80—ab
—— tumor, neutralization by blood of normal fowls of different ages. Duran-Reynals, F., 79—ab
Viscosity and streaming birefringence of sodium thymonucleate. Greenstein, J. P., 82—ab
—— nuclear, changes in carcinogenesis, ultracentrifugation. Cowdry, E. V., *et al.*, 668—ab
Vitamin A deficiency, heated fats, and gastropapillomatosis. Beck, S., *et al.*, 908—ab
—— histologic demonstration in tumors. Popper, H., *et al.*, 831—ab
—— liver, carcinogens effecting. Baumann, C. A., *et al.*, 508—ab
Vitamin E, anthracene group, relation. Adamstone, F. B., 767—ab
—— chemical assay. von Euler, B., *et al.*, 586—ab
—— deficiency, sarcoma. Adamstone, F. B., 767—ab
Voegtlin, C., 85—ab, 94—ab, 516—ab, 588—2 ab
—— *See* Chalkley, H. W., 82—ab
Vogel, H. E. *See* Kenwell, H. N., 840—ab
Voldeng, K. E., 842—ab
von Euler, B., *et al.*, 586—ab
von Euler, H., *et al.*, 173—ab, 586—ab
—— *See* von Euler, B., 586—ab
von Haam, E., *et al.*, 79—2 ab
von Recklinghausen's disease and hereditary deafness, bilateral acoustic neurofibromas. Gardner, W. J., *et al.*, 834—ab
—— associated with ganglioneuroma of the stomach. Moene, I., 435—ab
—— in identical twins. Loftis, E. L., 87—ab
—— with neurofibromatosis of bladder. Nagahara, Y., 87—ab
von Sallman, L., 834—ab
Vosburgh, R. K., *et al.*, 914—ab
Vulva, cancer, prevention. Taussig, F. J., 735*, 901, 914—ab
—— —— treatment. Held, E., 683—ab
—— carcinoma. Crosbie, W. G., 683—ab
—— malignancy. Frank, L. W., *et al.*, 914—ab
—— squamous cell epithelioma. Kilfoy, E. J., 89—ab

Wainman, L. M. *See* Bonser, G. M., 505—ab
Wakabayashi, O., 842—ab
Waldron, C. W., 436—ab
Walker, A. E., *et al.*, 679—ab, 833—2 ab
—— *See* Haverfield, W. T., 913—ab
Walker, G. W., *et al.*, 839—ab
Walker, M. A., *et al.*, 681—ab
Walker, W. B., 436—ab
Wallace, A. B. *See* Riley, J. F., 506—ab
Wallace, E. W., and C. A. Mills. Effect of climatic environment upon the genesis of skin cancers induced with methylcholanthrene and upon the growth of a transplantable sarcoma in C3H mice, 743*
Wallace, S. A. *See* Ashworth, C. T., 841—ab
Wallis, E. S. *See* Bernstein, S., 505—ab
Walsh, G., *et al.*, 89—ab
Walsh, J. C., *et al.*, 916—ab
Waltemath, G. F. *See* Platt, O. R., 514—ab
Walter, R. I., *et al.*, 682—ab
Walters, W., 92—ab, 435—ab
Waltman, C. A. *See* Taylor, H. C., Jr., 337—ab
Warner, S. G. The effect of the milk factor concentration on the development of spontaneous tumors in hybrids derived from reciprocal cross of two high cancer strains of mice, 738*
—— *See* Reinhard, M. C., 653, 672—ab, 741*
Warren, F. L. *See* Badger, G. M., 505—ab
—— *See* Parsons, L. D., 909—ab
Warren, S. The treatment of leukemia with radioactive phosphorus, 730*
—— **and O. Gates.** Spontaneous and induced tumors of the guinea pig, 65, 85—ab
—— *et al.*, 86—ab, 88—ab, 828—ab, 847—ab, 912—ab
—— *See* Dunlap, C. E., 730*, 953, 975—ab
—— *See* Fogg, L. C., 649, 672—ab
Warren, S. L. *See* DuBilier, B., 966, 979—ab
Wasson, W. W., *et al.*, 679—ab
Water content of liver, affected by carcinosarcoma 256. McEwen, H. D., and F. L. Haven, 148, 173—ab
Waters, L. L. *See* Bunting, H., 173—ab
Watson, D. P. *See* Watson, E. A., 842—ab
Watson, E. A., *et al.*, 842—ab
Watson, E. M., *et al.*, 684—ab
Watson, W. L., *et al.*, 93—2 ab
Watts, R. M., and F. L. Adair. Occurrence of estrogenic hormones in ovarian cysts, 638, 682—ab, 752*
Waugh, J. M., 92—ab
Webster, J. E. *See* Weinberger, L. M., 833—ab
Wechsler, I. S. *See* Weinstein, E. A., 833—ab
Weight, body, relation to incidence of cancer. Tannenbaum, A., 83—ab
Weil, L., 768—ab
Weil-Malherbe, H. *See* Dickens, F., 509—ab
Weinberg, T., 848—ab
Weinberger, L. M., *et al.*, 833—2 ab, 917—ab
Weinstein, E. A., *et al.*, 833—ab
Weiss, J., 506—ab
Weiss, K., 836—ab
Welker, W. H. *See* Mann, L. S., 84—ab
Weller, C. V. The inheritance of retinoblastoma and its relationship to practical eugenics, 517, 589—ab
Welling, W. C., 592—ab
Wells, H. G., 87—ab

—— **M. Slye, and H. F. Holmes.** The occurrence and pathology of spontaneous carcinoma of the lung in mice, 259, 337—ab, 752*
Wentz, V. B., *et al.,* 842—ab
West, P. M., *et al.,* 768—ab
Wetherell, F. S., 918—ab
Wetzel, N. C. *See* Eveleth, M. S., 721, 840—ab
Wexler, N. H. *See* Hamilton, C. E., 90—ab
Wheat germ oil, effect of feeding on production of liver cancer by butter-yellow. Sugiura, K., 670—ab
—— —— —— failure to induce sarcoma in rats. Brues, A. M., B. B. Marble, and B. Riegel, 815, 825—ab
—— —— —— injection, induction of sarcoma. Harris, P. N., 751*
White, A., 831—ab
White, H. J. *See* Casilli, A. R., 90—ab
White, J., 431—ab, 978—ab
—— *See* Edwards, J. E., 746*
—— *See* Greenstein, J. P., 673—ab, 732*, 978—ab
—— *See* Mider, G. B., 734*
White, J. W., 832—ab, 913—ab
Whitmore, E. R., 81—ab, 836—ab
Widmann, B. P., 679—ab
Wigby, P. E., *et al.,* 257—ab
Wilcox, E. A. *See* Greenblatt, R. B., 682—ab
Wilhelm, L. F. X. *See* Goeckerman, W. H., 510—ab
Wilkins, G. C., 679—ab
Williams, P. C. *See* Dodds, E. C., 905—ab
Williams, W. L., *et al.,* 831—ab
Willis, R. A., 591—ab
Wilson, H., 436—ab
—— *See* Salter, W. T., 60, 79—ab
Wilson, J. G., *et al.,* 426—ab
Wilson, L., 588—ab
Wilson, R. H., F. DeEds, and A. J. Cox, Jr. The toxicity and carcinogenic activity of 2-acetaminofluorene, 595, 670—ab
Williams, G. D. *See* Taussig, J., 86—ab
Williams, W. L. *See* Strong, L. C., 886, 907—ab
Winer, L. H., 916—ab
Winkelman, N. W., *et al.,* 847—ab
Witwer, E. R. *See* Leucutia, T., 915—ab
Woelfel, W. D., J. W. Spies, and J. K. Cline. Cancer of the mouth. I. Some chemical aspects of buyo-cheek cancer, 748*
Woglom, W. H., 671—ab, 906—ab
—— *See* Eisen, M. J., 629, 673—ab
—— *See* West, P. M., 768—ab
Wolfe, J. K., *et al.,* 333—ab, 431—ab
—— *See* Hershberg, E. B., 430—2 ab
Wolfe, J. M., *et al.,* 426—ab, 582—ab
—— *See* Burack, E., 227, 251—ab
—— *See* Wright, A. W., 583—ab
Wolfer, J. A., 589—ab
Wolff, R. A. *See* Haythorn, S. R., 840—ab
Wolfson, S. A., *et al.,* 587—ab
Wollner, A., 507—ab
Wood, G. A. *See* Gray, H. K., 835—ab
Wood, J. L., *et al.,* 330—ab
Woodard, H. Q., et al., 679—ab
Woodhouse, D. L., 587—ab
Woodruff, L. M. Tumors produced by estradiol benzoate in the guinea pig, 367, 427—ab
Woodruff, R., *et al.,* 92—ab
Woodward, F. D., *et al.,* 839—ab
Woodward, G. E., *et al.,* 768—ab
Woolley, G., *et al.,* 170—ab, 252—ab
—— **L. W. Law, and C. C. Little.** The occurrence in whole blood of material influencing the incidence of mammary carcinoma in mice, 955, 977—ab
Woolsey, R. D., *et al.,* 913—ab
Wright, A. W., *et al.,* 583—ab
—— *See* Burack, E., 227, 251—ab
—— *See* Danzi, M. V., 795, 827—ab
—— *See* Wolfe, J. M., 426—ab, 582—ab
Wright, F. H., 253—ab
Wuester, W. O. *See* Pack, G. T., 588—ab
Wyeth, G. A. Results of a study of living blood of cancer patients, 735*

Xanthine dehydrogenase, catalase, and amylase, relative activity in normal and cancerous hepatic tissue of rat. Greenstein, J. P., *et al.,* 978—ab
—— oxidase (dehydrogenase) activity in livers of mice of cancer-susceptible and cancer-resistant strains. Figge, F. H. J., and L. C. Strong, 779, 828—ab
Xeroderma pigmentosum with tumor formation. Jessup, D. S. D., 680—ab
X-radiation, preoperative, carcinoma of breast. Mooney, B. R., 677—ab
X-ray. *See also* Radiation, Roentgen
X-ray and radium, protection, biologic significance of tolerance dose. Henshaw, P. S., 911—ab
—— deep roentgen, deleterious effects on lung. Jacobson, V. C., 90—ab
—— diagnosis, calcified pelvic tumors. Stevenson, C. A., 683—ab
—— —— tumors of small intestine. Doub, H. P., *et al.,* 513—ab
—— direct, of tumors. Hancock, J. D., *et al.,* 676—ab
—— dosimetry, sperm of sea-urchin as biological test object. Miwa, M., *et al.,* 828—ab
—— effect of dosages on proliferation of tissues in vitro. Goldfeder, A., 334—ab
—— —— on spinal ganglia of albino rats. Ma, W. C., *et al.,* 828—ab
—— induction of multipolar cell division. Henshaw, P. S., 908—ab
—— of pelvis in carcinoma of cervix uteri. Stone, R. S., *et al.,* 679—ab
—— therapy, intra-orificial. Wasson, W. W., *et al.,* 679—ab
—— —— tumors of maxillary sinus, pharynx, and larynx. del Regato, J. A., 511—ab
—— —— bronchogenic carcinoma. Leddy, E. T., 90—ab
—— —— cancer of breast, used preoperatively or in non-operated cases. Lenz, M., 338—ab
—— —— contact, in bladder tumors. Goin, L. S., *et al.,* 86—ab
—— —— Ewing's tumor. Crockett, R. H., 843—ab
—— —— for pelvic bone metastases from carcinoma of the breast. Littig, L. V., 911—ab
—— —— in benign giant cell tumor of bone. Leucutia, T., *et al.,* 915—ab
—— —— low-voltage contact (Chaoul therapy). Goin, L. S., *et al.,* 676—ab
—— —— of leukemias. Rubenfeld, S., *et al.,* 678—ab
—— —— rotation. Hawley, S. J., 256—ab
—— —— supervoltage, late results. Leucutia, T., 86—ab
—— —— uterine fibromyomas. Lemos Ibañez, A., 511—ab
X-rays, contact, time-intensity factor of tumor dose for rat sarcoma 39. Gershon-Cohen, J., *et al.,* 828—ab
—— effect on cells cultivated in vitro. Lasnitzki, I., 172—ab
—— —— —— enzymes. Dale, W. M., 80—ab
—— —— —— mitosis of sea-urchin eggs and sperm. Yamashita, H., *et al.,* 81—ab
—— —— —— tumor growth when tumor is not irradiated. Russ, S., *et al.,* 172—ab
—— —— —— —— of known genetic constitution. Reinhard, M. C., 672—ab
—— inactivation of agent of fowl-leukosis. Doljanski, L., *et al.,* 508—ab
Xylol, paraffinoma treatment. Roffo, A. H., 588—ab
X-zone, adrenal cortex in two inbred strains of mice. Daughaday, W., 883, 906—ab

Yamashita, H., *et al.,* 81—ab
—— *See* Miwa, M., 828—ab
Yando, A. H., *et al.,* 341—ab
Yardumian, K. Y., *et al.,* 591—ab
Yeast extract, action on transplanted and spontaneous malignant tumors in mice. Lewisohn, R., C. Leuchtenberger, R. Leuchtenberger, D. Laszlo, and K. Bloch, 799, 829—ab

—— —— effect on spontaneous breast adenocarcinomas of mice. Lewisohn, R., C. Leuchtenberger, R. Leuchtenberger, and K. Bloch, 752*
—— or spleen, extract, treatment of spontaneous breast adenocarcinomas in mice. Lewisohn, R., *et al.*, 336—ab
Yeasts, growth in presence of carcinogens. Childs, W. A., J. W. Spies, and J. K. Cline, 741*
Yohda, Y. *See* Nakamura, H., 85—ab
Yolton, N., et al., 339—ab
Young, A. *See* Smith, E., 837—ab
Young, F., 913—ab
Young, N. F. *See* Kensler, C. J., 585—ab
Young, W. C. *See* Wilson, J. G., 426—ab

Zahl, P. A., *et al.*, 335—ab, 338—ab, 828—ab
Zamecnik, P. *See* Gusberg, S. B., 509—ab
Zephiroff, P., *et al.*, 331—ab, 333—ab, 336—2 ab
—— *See* Dobrovolskaïa-Zavadskaïa, N., 331—3 ab, 335—ab
Ziegler, M. R. *See* Hansen, A. E., 842—ab
Zimmerman, H. M., and H. Arnold. Experimental brain tumors. I. Tumors produced with methylcholanthrene, 919, 975—ab
Zinc chloride, use in chemosurgery. Mohs, F. E., and M. F. Guyer, 49, 81—ab
—— nitrate, teratoid tumors of sex organs of cock. Falin, L. I., *et al.*, 580—ab
—— peroxide, use in radiation necrosis and infected tumors. Sunderland, D. A., *et al.*, 588—ab
Zuckerman, S. S., 93—ab
Zuckermann, C., 176—ab